BC Timber Sales
Okanagan - Columbia Business Area

BCTS
BC Timber Sales
Okanagan-Columbia

FOREST STEWARDSHIP PLAN

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1.0 INTERPRETATION

1.1 Definitions

In this FSP:

"Affected Species" means *Flammulated Owl, Coeur d'Alene Salamander* and *Tiger Salamander* in the context of the results and/or strategy being described.

"Agreement Holder" means the holder of a Timber Sale Licence or Road Permit granted by the TSM to which this FSP applies.

"Commencement Date" means the date the Term of this FSP begins, as specified in Paragraph 2.3.

"Core Area" means an area for:

- the Coeur d'Alene Salamander is <20ha where there is an occurrence of the Affected Species known to the Holder of this FSP which includes all suitable habitat,
- the Tiger Salamander is ≥ 5ha and <25ha where there is an occurrence of the Affected Species known to the Holder of this FSP which includes all suitable habitat,

"Cultural Heritage Resource" refers only to those resources that are the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and not regulated under the Heritage Conservation Act.

"FDU" means a forest development unit under this FSP.

"FPC" means the Forest Practices Code of British Columbia Act RSBC 1996, c 159.

"FPPR" means the *Forest Planning and Practices Regulation*, consolidated to December 31, 2004.

"FRPA" means the *Forest and Range Practices Act*, SBC 2002, c. 69, and applicable regulations made thereunder, as amended from time to time.

"FSP" means this Forest Stewardship Plan.

"KBHLP" means Kootenay Boundary Higher Level Plan.

"Minister" means the person who has, on behalf of government, approved this FSP, or such other person as that person may delegate.

"MTHB" means the mature timber harvesting landbase in the Forest District of the Affected Species.

"Management Area" means an area immediately adjacent to a Reserve Area of an amount that, for the,

- Flammulated Owl when combined with the reserve area, is ≥ 10ha and ≤ 30ha,
- Coeur d'Alene Salamander is a 20 – 40 m zone around the perimeter of the Core Area designed to protect the windfirmness and microclimate of the core area.
- Tiger Salamander is an area outside the Core Area that may be included to capture high quality habitat or to provide connectivity between populations.

"Management Zone" means, for the Flammulated Owl, an approximate 100m radius area surrounding the Core Area.

""MAL" means Ministry of Agriculture and Lands (formerly the Ministry of Sustainable Resource Management).

"MoE" means the Ministry of Environment. (formerly the Ministry of Water, Air, Land Protection)

"MoFR" means the Ministry of Forests and Range (formerly the Ministry of Forests).

"Nest" means, for the Flammulated Owl, a nest that is occupied or reasonably capable of being occupied.

"Notice Criteria" means the Distribution and Attributes for the Affected Species.

"Reserve Area" means, for the Flammulated Owl, ≥7ha and ≤12ha around the nest site know to the holder of this FSP.

"RHLP" means Revelstoke Higher Level Plan.

"Submission Date" means the date specified in Paragraph 2.1.

"Term" means the period specified in Paragraph 2.2.

"TOC" means British Columbia Timber Sales, Okanagan - Columbia Business Area.

"Total Habitat Required" means for:

- the Coeur d'Alene Salamander is 60ha,
- the Tiger salamander is 541ha,
- the Flammulated Owl is 540ha.

"TSA" means Timber Supply Area.

"TSL" means a Timber Sale Licence.

"TSM" means the Timber Sales Manager for the BC Timber Sales Okanagan Columbia Business Area.

1.2 Tenses

In this FSP the singular includes the plural and the plural includes the singular unless the context indicates otherwise.

1.3 Definitions under Acts

Unless otherwise expressly indicated, or indicated by context, terms used in this FSP have the definition given them, as of the Submission Date, in *FRPA*, the *Forest Act* and their pursuant regulations.

1.4 Objective Cancelled

If an objective for which a result and/or strategy is included under this FSP is cancelled, the result and/or strategy under this FSP pertaining to that objective is no longer applicable effective the date of cancellation of the objective.

1.5 Events beyond TOC Control

The results, strategies, stocking standards and measures contained in this FSP are subject to the following events, to the extent that they are beyond the reasonable control of the holder of this FSP and to the extent they may impact the holder's ability to carry out a strategy or achieve a result, stocking standard or measure:

a) natural events including without limitation, fire, flood, insect outbreaks, or disease or animal or abiotic factors;
b) an action of government including, without limitation:
    i. an order under sec, 77.1 of *FRPA* or any other action by government in respect of aboriginal rights or title,
    ii. forest closures as a result of risk of fire or for fire suppression or control;
    iii. a direction or approval to relocate harvesting to a location that contains timber that is in imminent danger of being lost, destroyed or significantly reduced in value;
    iv. a direction or approval to take measures to control insects or disease, animals or abiotic factors that are causing damage to or threatening Crown timber;
    v. delay in issuing a TSL or Road Permit unless the delay was due to action taken under the Performance Based Harvesting Regulation;
    vi. a decision to carry out or to require the holder of this FSP to carry out strategic level, special, unforeseen or extraordinary environmental, integrated resource, forest management or traditional studies or planning;
    vii. an order under Part 13 of the *Forest Act*;
    viii. failure to provide adequate information;
    ix. a change in law;
c) actions or inactions by third parties including, without limitation, work stoppage including strike, lockout, injunction or moratorium;
d) depressed markets for wood products as determined by the minister; or
e) other circumstance similar to those under paragraphs a) to d).

2.0 SUBMISSION DATE, TERM AND COMMENCEMENT DATE OF THIS FSP

2.1 Submission Date

The date of submission of this FSP is February 16, 2006

2.2 Term

The Term of this FSP will be five (5) years beginning on the Commencement Date.

2.3 Commencement Date

The Commencement Date for the term of this FSP is the date the minister gives effect to this FSP.

3.0 APPLICATION OF THIS FSP

3.1 FSP Holder

The holder of this FSP is the TSM.

3.2 Application of FSP

Subject to exceptions under *FRPA*, this FSP applies to:

(a) a TSL advertised and entered into by the TSM to which Section 3(1) of FRPA does not apply; and
(b) a Road Permit granted by the TSM to a person holding a TSL referred to in subparagraph (a) that is within a FDU and that comes into effect on or after the Commencement Date of this FSP.
(c) an access road constructed by the TSM to an area to be harvested under a TSL referred to in paragraph 1.

4.0 FOREST DEVELOPMENT UNITS

FDU's are areas where forest practices will occur over the term of this FSP and have common sets of objectives, results and/or strategies. FDU's in this FSP are located within the Okanagan Shuswap and Columbia Forest Districts.

FDU's in this FSP encompasses an entire TOC operating area as shown in figure one and two as well as the FSP FDU maps in Appendix B. Within FDU's are declared areas (cutblocks subject to a TSL and roads subject to a Road Permit issued by the TSM and *FRPA* sec. 196(1) and 196(2) cutblocks and roads including those located outside and separate from FDU's).

During the term of this FSP TOC will periodically declared areas through a FSP amendment for those TSL's and Road Permits that are substantially completed and can be measured against the results and/or strategies contained in this FSP. TOC will deposit FSP amendments with the appropriate district manager and those amendments take effect immediately upon submission consistent with *FPPR* sec. 30(1) and (2).

The holder of this FSP proposes 61 FDU's within the Okanagan Shuswap TSA and 20 FDU's within the Columbia TSA. A listing of FDU's by Forest District, name and size with an indication of declared areas can be found in Appendix C. The FDU's are shown on the FSP FDU maps.

Small areas of development fall outside of a main FDU listed in Appendix C or as illustrated on the FSP FDU maps due to old agreements or anomalies. Where this is the case they are identified in table 4.1.

Table 4.1: Timber Sale Licences & Road Permits Outside of FDU's.

Table 4.1. Timber Sale Licences & Road Permits Outside of FDU's

Forest District	Map Sheet	TSL Number RP Number	LU
Golden	083D.019	A48203 CPA	G3
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D009	A48203 CPA	G4
Golden	083D.009	A70984	G4
Golden	082N081	A60874	G8
Golden	082N081	A60874	G8
Golden	082N.081	N81-G29	G8
Golden	082N056	A42244	G21
Golden	082N056	A42244	G21
Golden	082N.043	A53840	G14
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A34322	G23
Golden	082N016	A68606	G23
Golden	082N045	A68606	G23
Golden	082N045	A68606	G23
Golden	082N035	A68606	G23
Golden	082N045	A68606	G23
Golden	082N035	A68606	G23
Golden	082N035	A68606	G23
Golden	082N034	A68606	G23
Golden	082N035	A68606	G23
Golden	082N034	A68606	G23
Golden	082N035	A68606	G23
Golden	082N016	A68606	G23
Golden	082N016	A68606	G23
Golden	082N045	A68606	G23
Golden	082N.045	A53858	G23

Table 4.1: Timber Sale Licences & Road Permits Outside of FDU's

Forest District	Map Sheet	TSL Number RP Number	LU
Golden	082N 045	A53858	G23
District of Revelstoke	082N011	A55802	R20
District of Revelstoke	082M009	M09-5	R7
District of Revelstoke	082M009	M09-6	R7
District of Revelstoke	082M009	M09-7	R7
Okanagan-Shuswap			Salmon Arm
Okanagan-Shuswap	082L054	A18661	Salmon Arm
Okanagan-Shuswap			Salmon Arm
Okanagan-Shuswap	082L054	A18661	Salmon Arm
Okanagan-Shuswap	082L054	A18661	Salmon Arm
Okanagan-Shuswap	082L054	A18661	Salmon Arm
Okanagan-Shuswap	082L075	A6623	Salmon Arm
Okanagan-Shuswap	082L075	A6623	Salmon Arm
Okanagan-Shuswap	082L075	A6623	Salmon Arm
Okanagan-Shuswap	082L065/75	A6623	Salmon Arm
Okanagan-Shuswap	082L065	A6623	Salmon Arm
Okanagan-Shuswap	082L065	A6623	Salmon Arm
Okanagan-Shuswap		AA380	Salmon Arm
Okanagan-Shuswap	082L072	AA465	Salmon Arm
Okanagan-Shuswap	082L072	AA465	Salmon Arm
Okanagan-Shuswap	082L072	AA464	Salmon Arm
Okanagan-Shuswap	082L072	AA464	Salmon Arm
Okanagan-Shuswap	082L065	A6623	Salmon Arm
Okanagan-Shuswap			Kettle
Golden		R11437.D	G3
Golden		R11437.E	G3
Golden		R11437.N	G3
Golden		R11437.H	G4
Golden		C RP 11437.K	G4
Golden		R11437.C	G4
Golden		R11437.I	G4
Golden		R11437.G	G4
Golden		R11437.F	G4
Golden		C RP 11437.J	G4
Golden		R11437.A	G4
Golden		R11437.M	G4
District of Revelstoke		C RP 07389.B	R19
Golden		R12602.C	G23
Golden		R12602.A	G23
Golden		R12602.B	G23
Okanagan-Shuswap		N RP 71435 -2 C	Eagle River
Okanagan-Shuswap		N RP 71435-2 A	Eagle River
Okanagan-Shuswap		N RP 46476-C1 A	Eagle River
Okanagan-Shuswap		N RP 71435 -1 D	Eagle River
Okanagan-Shuswap		N RP 71435-2 B	Eagle River
Okanagan-Shuswap		N RP 46476-C1 A	Anstey
Okanagan-Shuswap		S RP 75362 A	Upper Salmon
Okanagan-Shuswap		S RP 71437 A	Upper Salmon
Okanagan-Shuswap		S RP 75362 B	Upper Salmon

4.1 Items Identified in the FDU

The FSP FDU maps in Appendix B show the location of the following items that were in effect on the Submission Date:

1. Ungulate winter range areas, wildlife habitat areas, fisheries sensitive watersheds, lakeshore management zones, scenic areas, L1 lakes, community watersheds, old growth management areas, and areas where commercial timber harvesting is prohibited by an enactment.
2. Areas within FDU's that are subject to a TSL or a Road Permit granted by the TSM.

Table 4.2 lists the TSL's and Road Permits in effect on the date of submission of this FSP as specified in *FPPR* sec. 14(3)(k).

The location of FDU's within the Okanagan Shuswap and Columbia Forest Districts is shown in the figures one and two on the following pages.

Table 4.2: Timber Sale Licences and Road Permits in Effect on the Submission Date

Forest District	Mapsheet	TSL Number RP Number	LU NAME
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	083D018	A65756	G2
Golden	0 83D009	A70984	G4
Golden	083D009	A70984	G4
Golden	83D008	A75715	G4
Golden	83D008	A75715	R6
District of Revelstoke	83D008	A75715	R6
District of Revelstoke	83D008	A75715	R6
District of Revelstoke	83D008	A75715	R6
District of Revelstoke	83D008	A75715	R6
District of Revelstoke	082M089	A45452	R18
District of Revelstoke	082M099	A60881	R18
District of Revelstoke	082M088	A45453	R18
District of Revelstoke	082M089	A45453	R18
District of Revelstoke	082M088	A47866	R18
Golden	082N071	A75103	G29
Golden	082N081	A75103	G29
Golden	082N072	A75103	G29
Golden	082N071	A75103	G29
Golden	082N072	A75103	G29
Golden	082N072	A75103	G29
Golden	082N081	A75103	G29
Golden	082N072	A75103	G29
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
Golden	082N065	A75104	G19
District of Revelstoke	082M070	A65972	R5
District of Revelstoke	082M070	A65972	R19
District of Revelstoke	082N012	A74259	R20
District of Revelstoke	082N012	A74259	R20
Golden	082N016	A71121	G25
Golden		A58169	G25
District of Revelstoke	82L099	A75218	R7
District of Revelstoke	082L090	A56451	R4
District of Revelstoke	82L070	A61569	R2
District of Revelstoke	82L080	A76093	R2
District of Revelstoke	082K051	A55740	R1
Okanagan-Shuswap	082M046	A53946	Seymour
Okanagan-Shuswap	082M046	A53946	Seymour
Okanagan-Shuswap	082M046	A53946	Seymour

Table 4.2 Timber Sale Licences and Road Permits in Effect on the Submission Date

Forest District	Mapsheet	TSL Number RP Number	LU NAME
Okanagan-Shuswap	082M036	A53946	Seymour
Okanagan-Shuswap	082M035	A53946	Seymour
Okanagan-Shuswap	082M036	A53946	Seymour
Okanagan-Shuswap	082M036	A53946	Seymour
Okanagan-Shuswap	082M046	A37449	Seymour
Okanagan-Shuswap	082M046	A37449	Seymour
Okanagan-Shuswap	082L086	A63002	Eagle River
Okanagan-Shuswap	082L086	A63002	Eagle River
Okanagan-Shuswap	082L086	A63002	Eagle River
Okanagan-Shuswap	082L086	A63002	Eagle River
Okanagan-Shuswap	082M016	A66236	Anstey
Okanagan-Shuswap	082M016	A66236	Anstey
Okanagan-Shuswap	082M026	A53947	Anstey
Okanagan-Shuswap	082m026	A53947	Anstey
Okanagan-Shuswap	082m016	A53947	Anstey
Okanagan-Shuswap	082L093	A66240	Pukeashun
Okanagan-Shuswap	082L093	A66240	Crowfoot
Okanagan-Shuswap	082L085	A54083	White
Okanagan-Shuswap	082L085	A54083	White
Okanagan-Shuswap	082L085	A63900	White
Okanagan-Shuswap	082L085	A63900	White
Okanagan-Shuswap	082L085	A63900	White
Okanagan-Shuswap	082L085	A54083	White
Okanagan-Shuswap	082L085	A54083	White
Okanagan-Shuswap	082L085	A54083	White
Okanagan-Shuswap	082L085	A63900	White
Okanagan-Shuswap	082L085	A63900	White
Okanagan-Shuswap	082L066	A56013	Kingfisher
Okanagan-Shuswap	082L066	A56013	Kingfisher
Okanagan-Shuswap	082L066	A56013	Kingfisher
Okanagan-Shuswap	082L086	A63002	Kingfisher
Okanagan-Shuswap	082L066	A56013	Kingfisher
Okanagan-Shuswap	02L086	A75967	Kingfisher
Okanagan-Shuswap	082L086	A75967	Kingfisher
Okanagan-Shuswap	082L086	A75967	Kingfisher
Okanagan-Shuswap	82L086	A75967	Kingfisher
Okanagan-Shuswap	082L066	A56013	Kingfisher
Okanagan-Shuswap	082L076	A66958	Kingfisher
Okanagan-Shuswap	082L035	A78217	Kingfisher
Okanagan-Shuswap	082L086	A63002	Kingfisher
Okanagan-Shuswap	082L086	A63002	Kingfisher
Okanagan-Shuswap	082L065	A78907	Kingfisher
Okanagan-Shuswap	082L082	A75310	Salmon Arm
Okanagan-Shuswap	082L053	A77652	Salmon Arm
Okanagan-Shuswap	082L053	A76629	Salmon Arm
Okanagan-Shuswap	082L048	A58877	Mabel
Okanagan-Shuswap		A76627	Upper Salmon
Okanagan-Shuswap	082L021	A77645	Upper Salmon
Okanagan-Shuswap		A76627	Upper Salmon
Okanagan-Shuswap	082L052	A75763	Upper Salmon

Table 4.2: Timber Sale Licences and Road Permits In Effect on the Submission Date

Forest District	Mapsheet	TSL Number RP Number	LU NAME
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L052	A75763	Upper Salmon
Okanagan-Shuswap		A76627	Upper Salmon
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L021	A76625	Upper Salmon
Okanagan-Shuswap	082L021	A76627	Upper Salmon
Okanagan-Shuswap	082L052	A77910	Upper Salmon
Okanagan-Shuswap	082L053	A77652	Upper Salmon
Okanagan-Shuswap		A77645	Upper Salmon
Okanagan-Shuswap	082L053	A77652	Upper Salmon
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L052	A77910	Upper Salmon
Okanagan-Shuswap	82L021	A75362	Upper Salmon
Okanagan-Shuswap	82L032-16	A78912	Upper Salmon
Okanagan-Shuswap	82L042-12	A78911	Upper Salmon
Okanagan-Shuswap	082L042	A78910	Upper Salmon
Okanagan-Shuswap	82L 042-1	A78912	Upper Salmon
Okanagan-Shuswap	82L035	A74262	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	82L035	A74442	Vernon
Okanagan-Shuswap	82L014	A78908	Vernon
Okanagan-Shuswap	082L014	A78908	Vernon
Okanagan-Shuswap	082L035	A78217	Vernon
Okanagan-Shuswap	82L-014	A78908	Vernon
Okanagan-Shuswap	82 L 029	A73304	Cherryville
Okanagan-Shuswap	82L028	A71426	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L027	A77914	Cherryville
Okanagan-Shuswap	82L039	A58877	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L027	A77914	Harris
Okanagan-Shuswap	082L027	A77914	Harris
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	82L008	A77651	Upper Kettle
Okanagan-Shuswap	82L008	A77651	Upper Kettle
Okanagan-Shuswap	82L008	A77650	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	82E008	A78644	Upper Kettle
Okanagan-Shuswap	82L008	A78645	Upper Kettle
Okanagan-Shuswap	082E098	A56467	Upper Kettle
Okanagan-Shuswap	082E098	A56467	Upper Kettle
Okanagan-Shuswap	82L001	A66361	Pennask
Okanagan-Shuswap	82L001	A66361	Pennask
Okanagan-Shuswap	082E054	A69510	Kettle

Table 4.2: Timber Sale Licences and Road Permits In Effect on the Submission Date

Forest District	Mapsheet	TSL Number RP Number	LU NAME
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L052	A75763	Upper Salmon
Okanagan-Shuswap		A76627	Upper Salmon
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L021	A76625	Upper Salmon
Okanagan-Shuswap	082L021	A76627	Upper Salmon
Okanagan-Shuswap	082L052	A77910	Upper Salmon
Okanagan-Shuswap	082L053	A77652	Upper Salmon
Okanagan-Shuswap		A77645	Upper Salmon
Okanagan-Shuswap	082L053	A77652	Upper Salmon
Okanagan-Shuswap	082L053	A76629	Upper Salmon
Okanagan-Shuswap	082L052	A77910	Upper Salmon
Okanagan-Shuswap	82L021	A75362	Upper Salmon
Okanagan-Shuswap	82L032-16	A78912	Upper Salmon
Okanagan-Shuswap	82L042-12	A78911	Upper Salmon
Okanagan-Shuswap	082L042	A78910	Upper Salmon
Okanagan-Shuswap	82L 042-1	A78912	Upper Salmon
Okanagan-Shuswap	82L035	A74262	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	082L035	A78304	Vernon
Okanagan-Shuswap	82L035	A74442	Vernon
Okanagan-Shuswap	82L014	A78908	Vernon
Okanagan-Shuswap	082L014	A78908	Vernon
Okanagan-Shuswap	082L035	A78217	Vernon
Okanagan-Shuswap	82L-014	A78908	Vernon
Okanagan-Shuswap	82 L 029	A73304	Cherryville
Okanagan-Shuswap	82L028	A71426	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L027	A77914	Cherryville
Okanagan-Shuswap	82L039	A58877	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L028	A71426	Cherryville
Okanagan-Shuswap	082L027	A77914	Harris
Okanagan-Shuswap	082L027	A77914	Harris
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	82L008	A77651	Upper Kettle
Okanagan-Shuswap	82L008	A77651	Upper Kettle
Okanagan-Shuswap	82L008	A77650	Upper Kettle
Okanagan-Shuswap	082L008	A56467	Upper Kettle
Okanagan-Shuswap	82E008	A78644	Upper Kettle
Okanagan-Shuswap	82L008	A78645	Upper Kettle
Okanagan-Shuswap	082E098	A56467	Upper Kettle
Okanagan-Shuswap	082E098	A56467	Upper Kettle
Okanagan-Shuswap	82L001	A66361	Pennask
Okanagan-Shuswap	82L001	A66361	Pennask
Okanagan-Shuswap	082E054	A69510	Kettle

Table 4.2: Timber Sale Licences and Road Permits In Effect on the Submission Date

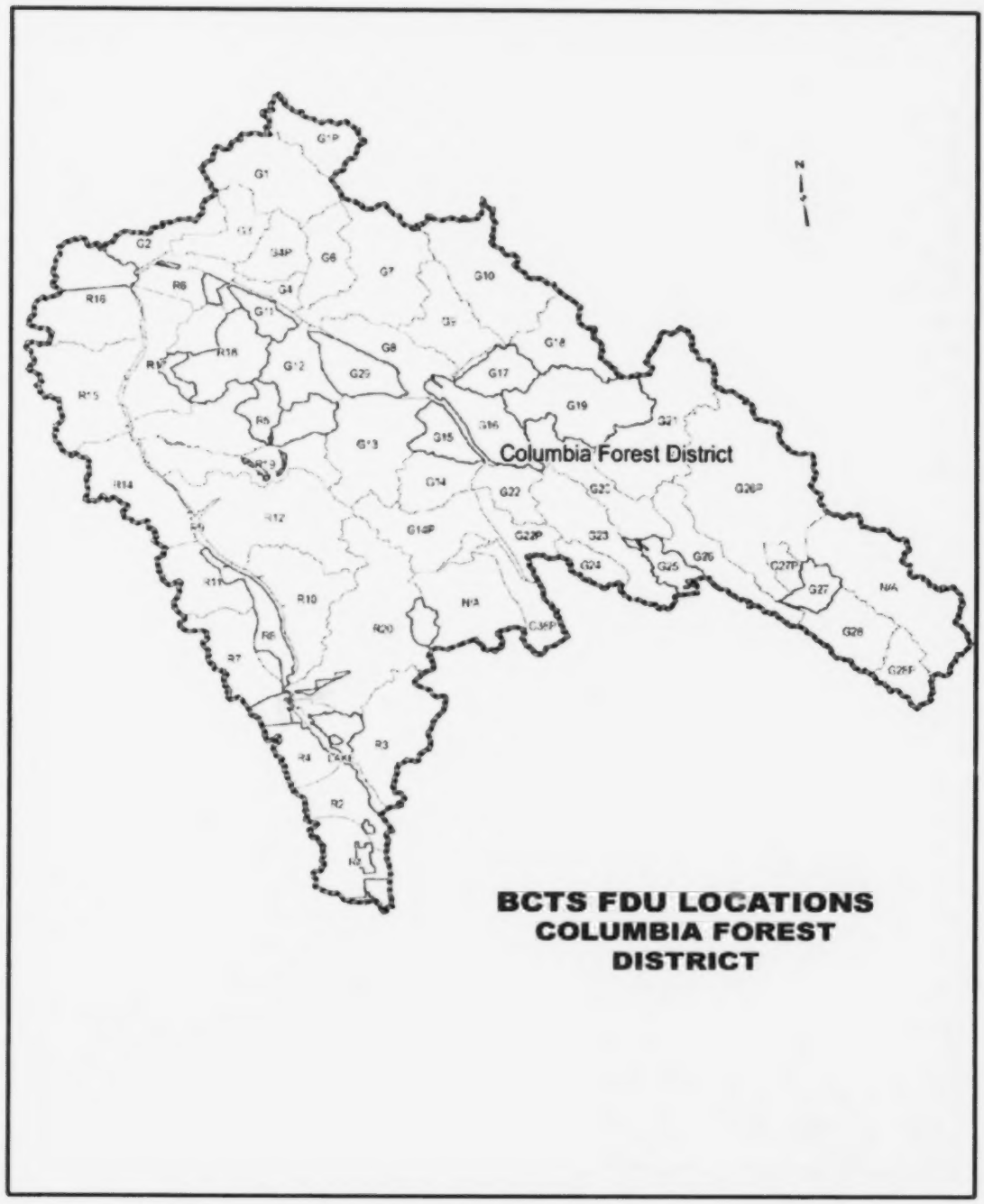
Forest District	Mapsheet	TSL Number RP Number	LU NAME
Okanagan-Shuswap	082E044	A69510	Kettle
Okanagan-Shuswap	82E044	A69510	Kettle
Okanagan-Shuswap	082E044	A69510	Kettle
Okanagan-Shuswap	82E044	A69510	Kettle
Okanagan-Shuswap	92H080	A69512	Trout
Okanagan-Shuswap	92H080	A69512	Trout
Okanagan-Shuswap	92H079	A69512	Trout
Okanagan-Shuswap	92H079	A69512	Trout
Okanagan-Shuswap	082E043	A72194	Penticton
Okanagan-Shuswap	082e043	A72194	Penticton
Okanagan-Shuswap	82E043	A72194	Penticton
Okanagan-Shuswap	82L002/12	A69511	Trepanier
Okanagan-Shuswap	82L002	A69511	Trepanier
Golden		R11437.D	G3
Golden		R11437.E	G3
Golden		R11437.N	G3
Golden		R11437.H	G4
Golden		C RP 11437.K	G4
Golden		R11437.C	G4
Golden		R11437.I	G4
Golden		R11437.G	G4
Golden		R11437.F	G4
Golden		C RP 11437.J	G4
Golden		R11437.A	G4
Golden		R11437.M	G4
District of Revelstoke		R10803.A	R6
District of Revelstoke		R10803.B	R6
Golden		C RP 75103 - 5	G29
Golden		C RP 75103 -3	G29
Golden		C RP 75103 - 1	G29
District of Revelstoke		R14466.A	R5
District of Revelstoke		C RP 09730.B	R5
District of Revelstoke		R14466.C	R5
District of Revelstoke		R09730.C	R5
District of Revelstoke		R14466.E	R5
District of Revelstoke		C RP 14466.B	R5
District of Revelstoke		R14466.D	R5
District of Revelstoke		R07389.A	R19
District of Revelstoke		C RP 07389.B	R19
District of Revelstoke		R07389.G	R19
Golden		R12602.C	G23
Golden		R12602.A	G23
Golden		R12602.B	G23
Golden		C RP 13291.A	G27
District of Revelstoke		R12237.A	R4
District of Revelstoke		R12237.B	R4
District of Revelstoke		R13345.A	R2
District of Revelstoke		R11454.B	R1
Okanagan-Shuswap		N RP 71435 -2 C	Eagle River
Okanagan-Shuswap		N RP 71435-2 A	Eagle River

Table 4.2: Timber Sale Licences and Road Permits In Effect on the Submission Date

Forest District	Mapsheet	TSL Number RP Number	LU NAME
Okanagan-Shuswap		N RP 46476-C1 A	Eagle River
Okanagan-Shuswap		N RP 71435 -1 D	Eagle River
Okanagan-Shuswap		N RP 71435-2 B	Eagle River
Okanagan-Shuswap		N RP 46476-C1 A	Anstey
Okanagan-Shuswap		N RP 72198-2 B	Upper Salmon
Okanagan-Shuswap		S RP 77652-K5L3-B2	Upper Salmon
Okanagan-Shuswap		S RP 75763 - F	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgB-3	Upper Salmon
Okanagan-Shuswap		S RP 77910 - K5K1 - A3	Upper Salmon
Okanagan-Shuswap		S RP 77652-K5L3-B1	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgD-2	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgC	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5k1A-1	Upper Salmon
Okanagan-Shuswap		S RP 77649 - K5K2	Upper Salmon
Okanagan-Shuswap		S RP 76627 - A	Upper Salmon
Okanagan-Shuswap		S RP 75362 A	Upper Salmon
Okanagan-Shuswap		S RP 75721- C	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgD-1	Upper Salmon
Okanagan-Shuswap		S RP 76627 - B	Upper Salmon
Okanagan-Shuswap		S RP 75721- A	Upper Salmon
Okanagan-Shuswap		S RP 75763 - H	Upper Salmon
Okanagan-Shuswap		S RP 75763 - K	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5k1A-4	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5k1B	Upper Salmon
Okanagan-Shuswap		S RP 77652-K5L3-D	Upper Salmon
Okanagan-Shuswap		S RP 76626- C	Upper Salmon
Okanagan-Shuswap		S RP 77649 - K5N3	Upper Salmon
Okanagan-Shuswap		S RP 77649 - K5FW	Upper Salmon
Okanagan-Shuswap		S RP 71437 A	Upper Salmon
Okanagan-Shuswap		S RP 76629 - K5L2	Upper Salmon
Okanagan-Shuswap		S RP 77652-K5L3-C	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgB-1	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5lgB-2	Upper Salmon
Okanagan-Shuswap		S RP 75362 B	Upper Salmon
Okanagan-Shuswap		S RP 77910-k5k1A-2	Upper Salmon
Okanagan-Shuswap		N RP 72198-1 A	Upper Salmon
Okanagan-Shuswap		N RP 78908 - K5MP 2	Vernon
Okanagan-Shuswap		N RP 78908 - K5B6	Vernon
Okanagan-Shuswap		N RP 78908 - K5MP 1	Vernon
Okanagan-Shuswap		N RP 71426 - 4 B	Cherryville
Okanagan-Shuswap		N RP 71426 - 2 A	Cherryville
Okanagan-Shuswap		N RP 77914 - K273	Harris
Okanagan-Shuswap		N RP 77914 - K5C3	Harris
Okanagan-Shuswap		S RP 78644 - K5K4 - 1	Upper Kettle
Okanagan-Shuswap		S RP 78644 - K5K4 - 3	Upper Kettle
Okanagan-Shuswap		S RP 78644 - K5K4 - 2	Upper Kettle
Okanagan-Shuswap		S RP 69512-1 A	Trout
Okanagan-Shuswap		S RP 69512-4 B	Trout

Figure 1. TOC FDU's within the Okanagan Shuswap Forest District.

Figure 2. TOC FDU's within the Columbia Forest District.



5.0 OTHER PLANS

TOC operates in the Okanagan Shuswap and Columbia Forest Districts within the Southern Interior Forest Region. In the Columbia Forest District there are two Higher Level Plans (HLP's) that the holder of this FSP is required to be consistent with. Within the Okanagan Shuswap Forest District the Okanagan Shuswap Land and Resource Management Plan is a cabinet approved, policy document and as such, the resource management zones and objectives that form the HLP do not carry the force of law. The plans, by Forest District and TSA are listed in table 5.1.

Table 5.1: Other Plans.

Forest District	*TSA*	*Plan*	*HLP (Y/N)*
Columbia	Golden	Kootenay Boundary Land Use Plan (KBLUP)	Yes
Columbia	Revelstoke	Revelstoke Minister's Advisory Council (RMAC)	Yes
Okanagan Shuswap	Okanagan	Okanagan Shuswap Land and Resource Management Plan (OSLRMP)	No

The Minister of Agriculture and Lands has released "draft" orders for the Okanagan TSA that will, when made effective, establish resource management zones (RMZ's) and objectives for seven resource features/values in the Okanagan TSA. Once the orders are brought into effect, the holder of this FSP will have to amend the FSP if the RMZ's overlap with the FDUs.

As the objectives and RMZ's are "draft" (i.e. not legally established) TOC can not incorporate them into this FSP. TOC has however, identified results and strategies for those objectives within the applicable RMZ's and presented them in the supporting documentation with the intent of having them fully available and accessible during the review and comment period for both agency and public review. It is TOC's intent to amend those results and strategies into their FSP without further review and comment as the objectives, the RMZ's and the strategies stem from the cabinet approved OSLRMP which is not deemed new information to agency staff or the public.

6.0 RESULTS AND STRATEGIES

Results and/or strategies will be employed to achieve the objective indicated for the applicable FDU/s indicated in each Objective Table. Where objectives differ by TSA the results and/or strategies that apply to that TSA and FDU are indicated as there are many cases where objectives, results and/or strategies differ within each TSA and by HLP. Where references are made to *FRPA*, the *FPPR* or orders by government those references are applicable to the statute, regulation or order that was in existence on the submission date of this FSP.

Objectives, the results and/or strategies or default and/or mandatory practice requirements that will be employed to meet the objective, measures and stocking standards are organized into tables specific to each objective, measure and stocking standard. Where default or mandatory practice requirements are listed it is the holder's intent to use those practice requirements to achieve the objective. Where exemptions are granted upon approval of this FSP and the holder makes an undertaking as specified in the *FPPR* or where an exemption may be granted by the Minister or the Minister responsible for the *Wildlife Act* that exemption is listed under the "applicable exemption" section of each Objective Table and when the FSP is approved, the exemption will be given effect.. Many exemptions are deemed approved while others may be conditional and are given effect when those conditions exist. The "applicable FDU/s" section of each Objective Table identifies the FDU/s or portions of the FDU/'s to which the objective and the results and/or strategies apply.

Consistent with *FPPR* sec. 12(8) the holder of this FSP is exempt from specifying results and/or strategies for the objective set by government for timber.

6.1 Objectives Set by Government

6.1.1 Objectives Prescribed under Section 149(1) of FRPA

6.1.1.1 Objectives Set by Government for Soils

Table 6.1.1.1 Soils	
Legal Reference	*FPPR* sec. 5
Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils".*
Default Practice Requirements	TSL's and Road Permits issued by the holder of this FSP will comply with the default practice requirements for: • temporary access structures as listed in the *FPPR* sec. 35, • permanent access structures as listed in the *FPPR* sec. 36,
Mandatory Practice Requirements	TSL's and Road Permits issued by the holder of this FSP will comply with the default practice requirements for: • landslides as listed in the *FPPR* sec. 37, • natural drainage patterns as listed in the *FPPR* sec. 39, • re-vegetation as listed in sec. 40 of the *FPPR*.
Results & Strategies	• n/a
Applicable Exemptions	*By virtue of stating the default and mandatory practice requirements will be adhered to the holder of the FSP is exempt from results and strategies as stated in FPPR* sec. 12.1(1)(a)
Applicable FDU's	All FDU's

6.1.1.2 Objectives Set by Government for Wildlife

6.1.1.2.1 Objectives Set by Government for Wildlife; Bighorn Sheep Wildlife Habitat Areas

Table 6.1.1.2.1	*Bighorn Sheep*
Legal Reference	*FRPA* sec. 180(a), *FPPR* sec. 7
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Wildlife Habitat Areas – Bighorn Sheep/Okanagan TSA
Legal Reference	*FRPA* sec. 180(a)
Results and Strategies	Where the holder of this FSP has FDU's that overlap the WHA's, the holder of the FSP will: • avoid timber harvesting and/or road building activities unless unforeseen circumstances including insect, disease and/or blowdown occurs within the WHA, • Where *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.
Applicable Exemptions	• *FPPR* 92(2)
Applicable FDU's	Okanagan TSA: Skaha, TFL15

6.1.1.2.2 Objectives set by Government for Wildlife; Caribou

Table #: 6.1.1.2.2	Caribou
Legal Reference	*FPPR* sec. 7
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Caribou
Legal Reference	KBHLP Order (Oct 26, 2002)/Golden TSA - varied through Variance Order #KBHLP-04 (March 25, 2005), Resource Management Objective 3; Caribou Management Zones 1, 5, 6, 7 and 8 within the Golden Resource Management Zone. RHLP Order (March 25, 2005)/Revelstoke TSA - Resource Management Objective 3 within the Revelstoke Resource Management Zone.
HLP Objective	**KBHLP – Golden TSA[1]** (1) Retain seasonal habitats for mountain caribou in order to contribute to maintaining the viability of the existing subpopulations according to the forest cover requirements shown in Table 3.1, within the caribou management zones shown on Map 3.1 (Central Selkirks), Map 3.2 (Central Rockies), Map 3.3 (South Purcell) and Map 3.4 (South Selkirks). (2) (not applicable to Central Rockies caribou management zone) (3) Where subsections 1 and 2 above can not be achieved due to deficits in minimum forest retention area percentages, deficits must be recruited from the next youngest forest cover age class stands to achieve targets in the shortest time frame or through an alternate recruitment strategy. Alternate recruitment strategies must be submitted to the Regional Director Ministry of Sustainable Resource Development (MSRM) for approval. The Regional Director may approve specific recruitment strategies provided: a) the strategy has been developed by a professional biologist; b) the strategy contains a professional opinion from the registered biologist indicating that the strategy will benefit caribou habitat in the future; c) the strategy is spatially explicit: d) the strategy is not in conflict with an y existing caribou recovery plan for the specific herd; e) and the Regional Director MSRM is satisfied that the strategy will benefit caribou habitat. *(4)* Promote the development of future Caribou habitat through reforestation and silviculture treatments on all areas harvested within a Caribou Management Zone. **RHLP – Revelstoke TSA[1]** a) Contribute to maintenance and viability of the existing Mountain Caribou subpopulations by retaining seasonal habitats according to the Caribou habitat requirements shown in Table 3.1, within the Caribou habitat areas shown on Map 3.1, and subject to the following conditions in b) through f). b) Maintain mature and old and old seral forests to the levels indicated in tables 2.1 and 2.2 in those areas identified as intermediate biodiversity management on map 3.1. Mature and old and old are defined as shown in Table 2.4. c) For all zones in the Caribou Habitat Requirements table and areas identified as intermediate biodiversity management on map 3.1, forest cover requirements are determined by applying percentages to the Crown forested landbase within mapped caribou habitat of each landscape unit. For this objective, Crown forested land base excludes Provincial Parks, Protected Areas, Ecological Reserves and Federal Parks. The resultant forest cover area requirement is applied to slopes less than 80 percent.

[1] All references to tables and maps hereinafter are those within the KBHLP & RHLP (RMAC) and can be found at http:/srmwww.gov.bc.ca/kor/hlp/main.htm

	d) Immature caribou habitat identified on Map 3.1 does not currently contribute to meeting forest retention targets. A spatially explicit recruitment strategy must be in place prior to any harvesting in this area and once the recruitment strategy is in place, the immature area will contribute to caribou forest retention targets. e) The "Caribou Line" referred to in Table 3.1 is defined as the Operability Line in effect during 1994 and is shown on Map 3.1. Where there are deficits in minimum forest retention area percentages, deficits must be recruited from the oldest available stands within the mapped caribou habitat of each landscape unit. The Regional Director MAL may approve an alternate caribou habitat requirement strategy provided: i) the strategy has been developed by a professional biologist; ii) the strategy contains a professional opinion from the registered biologist indicating that the strategy will benefit caribou habitat in the future; iii) the strategy is spatially explicit: iv) the strategy is not in conflict with any existing caribou recovery plan for the specific herd; v) and the Regional Director MAL is satisfied that the strategy will benefit caribou habitat.
Results and Strategies	(1) TOC will work with other licensees operating within the same FDU's to apportion the forest retention areas. (2) TOC will not enter into a TSL or Road Permit agreement that will cause any of the above amounts to be reduced, unless the TSL or Road Permit agreement is to salvage stands damaged or destroyed by natural events (fire, insect infestations, blowdown etc.) and provided the stand is no longer suitable to contribute to caribou habitat requirements. (3) If sufficient forest retention area does not exist as a result of a TSL or Road Permit agreement entered into by TOC, the holder of this FSP will recruit replacement forest retention area from the oldest available stands within the applicable unit. *(4)* This result or strategy no longer applies to Landscape Units in which the MAL or other authorized representative of government establishes spatial objectives identifying caribou forest retention areas, provided the area established is consistent with the old seral requirements.
Applicable Exemptions	n/a
Applicable FDU's	Golden TSA: Goosegrass, Swan, Esplanade, Revelstoke TSA: Nagle Creek, Big Mouth, Frisby Ridge, Jumping Creek, BMX, TFL #56, Mt. Revelstoke Park

6.1.1.2.3 Objectives set by Government for Wildlife; Grizzly Bear

Table 6.1.2.2.3	Grizzly Bear
Legal Reference	*FPPR* sec. 7
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Grizzly Bear
Legal Reference	KBLHLP Order (October 26, 2002), establishes Resource Management Objective 5 for grizzly bear habitat and connectivity corridors within the Golden Resource Management Zone. RHLP Order - (March 25, 2005) establishes Resource Management Objective 4 regarding grizzly bear management within the Revelstoke Resource Management Zone
HLP Objective	**KBHLP– Golden TSA** 1. To maintain mature and /or old forests adjacent to important grizzly bear habitat (avalanche tracks, denning sites, etc.) as shown on Map 5.1 subject to objectives 5(5) and 5(6). 2. Transition Objective 5(1) takes effect four months after mapping of important grizzly bear habitat is completed and made available. 3. To maintain mature and/or old forests within connectivity corridors shown on Map 5.2, for purposes of regional forest ecosystem connectivity subject to objectives 5(5) and 5(6). 4. Forests situated on slopes greater than 80 percent do not contribute to the connectivity component of this objective. 5. Where applicable, mature targets must be used to address this objective if connectivity corridors and/or grizzly bear habitat have been identified. Protected areas must first be used to reduce the mature target where available within the biogeoclimatic unit. 6. Old targets should be used to address this objective unless other conservation values such as protection of rare or under represented old growth forests would be adversely affected. Protected areas must first be used to reduce the old target where available within the biogeoclimatic unit. **RHLP – Revelstoke TSA** a) Contribute to the viability of existing Grizzly Bear populations by retaining a minimum 50 metre width of forest cover adjacent to high value habitat on one side of the avalanche chute, where timber harvesting is proposed parallel to the high value habitat and one of the following conditions apply: i) both sides of the avalanche chute are proposed for harvest; ii) only one side of the avalanche chute is forested; iii) the average forest cover height within 50 metres on either side of the avalanche chute is less than 10 metres; or iv) the width of the forested area is less than 50 metres on either side of the avalanche chute. b) Mature and old and old seral forests are to be used in meeting (a) above, if in implementing Objective 2, mature and old and old seral forests must be maintained in the timber harvesting land base. In the absence of such opportunities, forest cover with a minimum height of 10 metres is to be maintained c) High value habitat within an avalanche chute is defined as an area that is: i) A herb or low shrub vegetation community as defined in the BC Land Cover Classification Scheme; ii) Situated on slopes <70%; iii) Situated on warmer aspects northeast through to northwest (45 degrees through to 315 degrees) and: iv) Situated in an avalanche chute that is 20 metres wide or greater between forested edges, excluding forest stands situated within the avalanche chute.

Results and Strategies	**KBHLP – Golden TSA** 1. Mapping of important grizzly bear habitat has not been completed, therefore objective 5(1) has not taken effect. No results or strategies for maintaining mature and old forests adjacent to such habitat have been prepared. For connectivity corridors: 2. TOC will work with other licensees operating within the same FDUs to apportion the mature and old forests within connectivity corridors. 3. TOC will not enter into a TSL or Road Permit agreement that will cause any of the above amounts to be reduced, unless the TSL or Road Permit agreement is to salvage forest damaged or destroyed by natural events (fire, insect infestations, blowdown etc.) and provided the stand is no longer suitable to contribute to grizzly bear habitat requirements. 4. If sufficient forest retention area does not exist as a result of a TSL or Road Permit agreement entered into by TOC, TOC will recruit replacement forest retention area from the oldest available stands within the applicable unit. 5. This result or strategy no longer applies to the Landscape Units in which the Minister of Sustainable Resource Management or other authorized representative of government establishes spatial objectives identifying grizzly bear forest retention areas, provided the area established is consistent with the old seral requirements. **RHLP– Revelstoke TSA** (1) TOC will not enter into a TSL or Road Permit agreement that will cause any of the required retention widths to be reduced, unless the TSL or Road Permit agreement is to salvage stands damaged or destroyed by natural events (fire, insect infestations, blowdown etc.) and provided that TOC identifies and replaces suitable retention forests.
Applicable Exemptions	n/a
Applicable FDU's	Golden TSA: all FDU's Revelstoke TSA: all FDU's

6.1.2.2.4 Objectives set by Government for Wildlife; Flammualted Owl

Table 6.1.2.2.4	Flammulated Owl
Legal Reference	*FPPR* sec. 7(2)
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) the survival of a species at risk,* *b) the survival of regionally important wildlife, and* *c) the winter survival of specified ungulate species".*
Factor	Flammulated Owl
Legal Reference	*FPPR* sec 7(2) Notice (Dec 15, 2004)
Results and Strategies	Where the Holder of this FSP harvests timber or constructs a road in an area meeting the Notice Criteria, the Holder will: (a) not harvest the timber or construct the road within a Reserve Area; except for partial harvesting systems designed to maintain suitable habitat features, (b) within a Management Area: (i) not harvest the timber or construct the road between June 1 and August 31 on any given year; (ii) not harvest veteran trees; (iii) in carrying out timber harvesting: a) use partial cut silviculture systems; b) remove <50% of the dominant or co-dominant trees or combination thereof; c) create openings < 0.6 hectares; and d) harvest less than 20% of the mature aspen trees. The above noted strategies do not apply to harvesting or road construction: (a) required for safety, fire suppression or to manage pest or disease outbreaks; (b) where it is impracticable in the circumstances or impairs the ability of the Holder of this FSP to exercise its timber harvesting rights in a manner consistent with sections 6(b) and (c) of the *FPPR*; or (c) authorized or required by government. Where a *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.
Applicable Exemptions	• *FPPR* 92(2)
Applicable FDU's	Okanagan TSA: - Okanagan Shuswap Forest District. Portions of the following FDU's within the following BEC subzone/variants: • PPxh – Skaha, TFL 15 • IDFdk1 – ge343 (Adelphi), Paxton, Whitehead, Glen Lake, Chase Harper, • IDFdm – Skaha, TFL 15 • IDFmw – Hlina Creek, White Lake, Chum Lake, Skimikin, Hunter Blurton, Gardom, Chase Harper, Echo Lake, Coldstream, Kal Slopes, Bolean, Mt. Ida, ge449 (Harris), Mission-Greystokes, ge416 (Cherry Ridge), ge266 (White Lake), • IDFxh – Chum Lake, Paxton, ge343 (Adelphi), Kal Slopes, Priest Creek, Skaha, TFL 15

6.1.1.2.5 Objectives set by Government for Wildlife; Coeur d'Alene Salamander

Table 6.1.1.2.5	Coeur d'Alene Salamander
Legal Reference	*FPPR* sec. 7(2)
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Coeur d'Alene Salamander
Legal Reference	FPPR sec 7(2) Notice (Dec 15, 2004)
Results and Strategies	Where the Holder of this FSP harvests timber or constructs a road in an area meeting the Notice Criteria, the Holder will: a) not harvest timber or construct road within a Core Area unless there is no other practicable option; and b) within a Management Zone: i. not harvest the timber or construct the road between May 1st and October 30th in nay given year; ii. in carrying out timber harvesting, where practicable: i. maintain at least 30% of the pre-harvest basal area that reflects the species and piece size distribution specified in the Notice, ii. leave wildlife trees, deciduous trees, and shrubs; and, iii. leave coarse woody debris, moss and understory intact considering the harvest and/or road building operations.. The above noted strategies do not apply to harvesting or road construction: a) required for safety, fire suppression or to manage pest or disease outbreaks; b) where it is impracticable in the circumstances or impairs the ability of the Holder of the FSP to exercise its timber harvesting rights in a manner consistent with sections 6(b) and (c) of the *FPPR*; or, c) authorized or required by government Where *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.
Applicable Exemptions	• *FPPR* 92(2)
Applicable FDU's	Columbia Forest District - Golden and Revelstoke TSA's. Portions of the following FDU's within the following BEC subzone/variants: ▪ ICHmk1 – Mt. Seven, ▪ ICHmw2 – TFL 23, ▪ ICHwk1 - Goosegrass, Swan, Esplanade, TFL 23, Frisby Ridge, Drimmie Creek, Jumping Creek, Mt. Revelstoke Park, Nagle Creek, Yellow Creek, Wetask Lake, Bluewater, ▪ MSdk – Mt. Seven, Ice River

Table 6.1.1.2.6 Objectives set by Government for Wildlife; Tiger Salamander

Table 6.1.1.2.6	***Tiger Salamander***
Legal Reference	*FPPR* sec. 7(2)
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Tiger Salamander
Legal Reference	FPPR sec 7(2) Notice (Dec 15, 2004)
Results and Strategies	Where the Holder of this FSP harvests timber or constructs a road in an area meeting the Notice Criteria, the Holder of this FSP will: a) Roads: i. not construct or deactivate roads deactivate roads, ii. close roads where practicable during critical times where recommended by MWLAP/MoE. b) Harvesting and Silviculture: i. where practicable and appropriate considering all values, avoid clear-cutting, ii. minimize ground disturbance including site preparation where practicable, iii. utilize road side harvest systems and avoid landings within core or management zones. iv. maintain near natural densities in plantations to mimic the open forest and grasslands prevalent in the NDT4 ecosystems. The above noted strategies do not apply to harvesting or road construction: a) required for safety, fire suppression or to manage pest or disease outbreaks; b) where it is impracticable in the circumstances or impairs the ability of the Holder of the FSP to exercise its timber harvesting rights in a manner consistent with sections 6(b) and (c) of the *FPPR*; or, c) authorized or required by government Where *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.
Applicable Exemptions	• *FPPR* 92(2)
Applicable FDU's	: Okanagan TSA - Okanagan Shuswap Forest District:. Portions of the following FDU's within the following BEC subzone/variants: • PPxh1 – Skaha, TFL 15 • IDF dk1/2 – ge343 (Adelphi), Paxton, Whitehead, Glen Lake, Chase Harper, • IDFdm1 – Skaha, TFL 15 • ICHmw2 – Bastion, Sicamous, Mt. Ida, Hunter Blurton, Cooke Creek, ge354 (Ireland Creek), Frazer Trail (Sugar Lake), ge416 (Cherry Ridge), Currie Ridge, Coldstream Creek, Kettle , TFL 33

6.1.1.2.7 Objectives set by Government; Ungulate Winter Range - Moose

Table 6.1.1.2.7 Ungulate Winter Range; Moose	
Legal Reference	*FPPR* sec. 7(2)
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	***Moose***
Legal Reference	***FPPR sec 7(2) notices (Dec 15, 2004)***
Results and Strategies	Specific to the indicators and amount and distribution of habitat required for Moose survival in the Golden and Revelstoke TSA's outside of parks and protected areas, subject to the amount of habitat required as specified in the notices for the respective TSA's and not exceeding that amount, considering the amount and distribution of habitat available within the applicable FDU's, the holder of this FSP will: • Identify and retain coniferous stands >60 years old (age class 3) with a crown closure of ≥ 40% for snow interception cover within the applicable FDU's, and • Identify and retain areas in that are in close proximity to snow interception cover, to the extent practicable that contain winter forage species such as Salix spp within the applicable FDU's. Specific to the indicators and amount and distribution of foraging and cover habitat required for Moose survival in the Okanagan-Shuswap TSA outside of parl and protected areas, subject to the amount of habitat required as specified in the notices and not exceeding that amount, considering the amount and distribution of habitat available within the applicable FDU's, the holder of this FSP will: • Identify and retain at least 15% of the area of the applicable FDU's net forested land base in early seral stands where early seral is defined as <25 years old on the IDF and ICH BEC zones and <35 years in the MS and ESSF BEC zones as foraging habitat, • Identify and retain o coniferous stands at least 16m in height with sufficient canopy closure to provide for snow interception and security cover, o Sites will be in patches where at least 50% of the sites are ≥ 20ha to the extent practicable, o Sites are in close proximity to important riparian features to the extent practicable, and o Include deciduous stands, old burns and non productive sites. Where *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.

Applicable Exemptions	***n/a***	
Applicable FDU's	Golden TSA:	Goosegrass, Swan, Esplanade, Blackwater ridge, Goodfellow, Mount Seven, Ice River
	Revelstoke TSA:	Heavy Snow pack zone: Nagle Creek Redrock Harbour, Big Mouth, BMX, Frisby Ridge Moderate Snow Pack Zone: Wetask lake, TFL 23
	Okanagan TSA:	Smokey House, Celista, Long Ridge, Crazy Creek, Hlinda Creek, White Lake, Bastion, ge266 (White Lake), Skimikin, Chase Harper, Mt. Ida, Paxton, ge343 (Adelphi), Barton Hills, Barton, Windy, Mugford, Terrace, Skaha, TFL15

6.1.1.2.7.1 Objectives set by Government; Ungulate Winter Range

Table 6.1.1.2.7.1	Ungulate Winter Range; Rocky Mtn. Elk, Mule Deer, White Tailed-Deer
Legal Reference	*FPPR* sec. 7(2) including Notices for TFL's #15 & #33 (excluding TFL #49)
Provincial Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas for:* *a) The survival of a species at risk,* *b) The survival of regionally important wildlife, and* *c) The winter survival of specified ungulate species".*
Factor	Columbia Forest District - Rocky Mtn. Elk, Mule Deer, White-tailed Deer Okanagan-Shuswap Forest District - Mule Deer
Legal Reference	FPPR sec 7(2) notices (Dec 15, 2004)
Results and Strategies	Specific to the indicators and amount and distribution of habitat required for Rocky Mtn. Elk, Mule Deer, White Tailed-Deer survival in the Golden and Revelstoke TSA's outside of parks and protected areas, subject to the amount of habitat required as specified in the notices for the respective TSA's and not exceeding that amount in consideration of the amount and distribution of habitat available within the applicable FDU's, the holder of this FSP will: • Identify and retain coniferous stands >100 years old (age class 5) with a crown closure of ≥ 40% in moderate and deep snow areas for snow interception cover within the applicable FDU's, and • Identify and retain areas in that are in close proximity to snow interception cover as foraging areas, to the extent practicable that contain preferred winter forage species including Ceanothus spp, Salix spp, Amelanchier alnifolia, Rosa acicularis, Cornus stolonifera and Pseudoroegneria spirata as well as arboreal lichens and Douglas-fir needles within the applicable FDU's, to the extent practicable in the applicable FDU's. Specific to the indicators and amount and distribution of habitat required for Mule Deer survival in the Okanagan TSA outside of parks and protected areas, subject to the amount of habitat required as specified in the notices for the TSA and not exceeding that amount, considering the amount and distribution of habitat available within the applicable FDU's, the holderof this FSP will: • Identify and retain snow interception cover that includes: o Coniferous stands with a high percentage of Douglas-fir dominants and/or co-dominants, o Have a clumped distribution and are ≥ 140 years old (age class 7) in the shallow snow pack zone, and o Within the moderate snow pack zone have 50% of the area in stands ≥ 120 years old (age class 6), on the remaining 50% of the area in stands ≥ 175 years old (age class 7) both with a crown closure of 36%, and o Within the deep snow pack zone, ≥ 100 years old (age class 5) with a crown closure of 46%, • Identify and retain foraging habitat that contain: o Ceanothus spp, Salix spp, Amelanchier alnifolia, Acer spp, Cornus stolonifera, or o arboreal lichens and Douglas-fir needles and twigs, and o are located in close proximity to snow interception cover sites, to the extent practicable in the applicable FDU's. Where *FPPR* sec. 7 notices are replaced or amended after submission of this FSP, the holder may, at their discretion within the first four months following issuance of the notices, amend the results and strategies in this FSP such that they are consistent with the replaced or amended notice.

Applicable Exemptions	n/a	
Applicable FDU's	Golden TSA: Revelstoke TSA (Mule deer only): Okanagan TSA (mule deer only):	Goosegrass, Swan, Esplanade, Blackwater ridge, Goodfellow, Mount Seven, Ice River Mt. Revelstoke, Wetask lake, Drimmie Creek Crazy Creek, Ross, Hlinda Creek, Chum Lake, White Lake, ge266 (White Lake), Sicamous, Mt. Ida, Hunter Blurton, Paxton, ge343 (Adelphi), Coldstream, Echo Lake, ge354 (Ireland Creek), Currie Creek, ge416 (Cherry Ridge), ge481 (Pearson Creek), Skaha, ge540, Priest Creek, Glen Lake, Naramata., TFL 15, TFL 33

6.1.1.2.8 Objectives set by Government for Water, Fish, Wildlife and Biodiversity within Riparian Areas

Table 6.1.1.2.8	Water, Fish, Wildlife & Biodiversity within Riparian Areas
Legal Reference	*FPPR* sec. 8 & 12.1(2)
Objective	*"Without unduly reducing the supply of timber from British Columbia's forests, to conserve at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas".*
Results, Strategies, Default and Mandatory Practice requirements	TSL's and Road Permits issued by the holder of this FSP will comply with the default and mandatory practice requirements for: • stream, lake and wetland riparian classes as listed in the *FPPR* sec. 47, 48 and 49, • restrictions in a riparian reserve and management zone and the riparian management area as listed in the *FPPR* sec. 50, 51 and 52, or, in the case of sec 52(2): o Take any such action consistent with *FPPR* sec. 8 that reflects the type of management regime and at the conclusion of harvesting in a riparian management zone (RMZ), ensure varying levels of retention having regards to • The need to buffer the aquatic ecosystem of a stream, wetland or lake from the introduction of materials that are deleterious to water quality or fish habitat, • The role played by trees and understory vegetation conserving water quality, fish habitat, wildlife habitat and biodiversity; • The need to maintain stream bank and stream channel integrity and stability. • The relative importance and sensitivity of different riparian classes of streams, wetlands and lakes. o The type, timing or intensity of forest practices that can be carried out within the context of a management regime referred to in the factors above. o Basal area retention levels in RMZ's will be consistent with the levels outlined in table :6.1.1.2.8A.

Table 6.1.1.2.8A: Basal Area Retention Levels in Riparian Management Zones.

Streams		
Community Watersheds & Fish Bearing Streams	Non Community Watersheds & Non Fish Bearing Streams	Minimum Basal Area Retention in Riparian Management Zones (% of original Basal Area)
S1-A/B		≥ 20
S2		≥ 20
S3		≥ 20
S4		≥ 10
	S5	≥ 5
	S6	0
Wetlands		
W1/3/5		≥ 10

	○ The above noted strategies do not apply to harvesting or road construction: (a) required for safety, fire suppression or to manage pest or disease outbreaks and/or large scale blowdown events;; or (b) authorized or required by government. • temperature sensitive streams as listed in the *FPPR* sec. 53, • stream crossings as listed in the *FPPR* sec. 55, • fish passage as listed in the *FPPR* sec. 56, • the protection of fish and fish habitat as listed in the *FPPR* sec. 57, • the use of livestock in riparian areas as listed in the *FPPR* sec. 58. • protecting water quality as listed in the *FPPR* sec. 59, • licenced water works as listed in the *FPPR* sec. 70, • excavated or bladed trails in community watersheds as listed in the *FPPR* sec. 61 and roads within a community watershed as listed in the *FPPR* sec. 62 apply to the portions of the following FDU's that fall within the community watersheds: ○ Ross/Bastion/Sicamous/Mt. Ida//Branvhflower/Coldstream/Kal Slopes, ○ Mugford/Mugford_b28/Terrace/Jackpine/Glen Lake, ○ Whitehead/Naramata/Skaha • Use of fertilizer within community watersheds as listed in the *FPPR* sec. 63 applies to the portions of the following FDU's that fall within the community watersheds: ○ Ross/Bastion/Sicamous/Mt. Ida//Branvhflower/Coldstream/Kal Slopes, ○ Mugford/Mugford_b28/Terrace/Jackpine/Glen Lake ○ Whitehead/Naramata/Skaha
Applicable Exemptions	• *FPPR* sec. 12.1(2)(b)
Applicable FDU's	All FDU's except those listed above where portions fall within a community watershed. In those instances the default practice requirements for community watersheds applies only within that portion of the FDU identified as being wholly or partially within a community watershed.

6.1.1.2.9 Objectives set by Government for Community Watersheds

Table 6.1.1.2.9 Community Watersheds	
Legal Reference	*FPPR* sec. 8.2
Objective	*"To prevent to the extent described in subsection (3) the cumulative hydrological effects of primary forest activities within the community watershed from resulting in* *(a) a material adverse impact on the quality of water or the timing of the flow of the water from the waterworks, or* *(b) the water from the waterworks having a materiel adverse impact on human health that cannot be addressed by water treatment required under:* *i. an enactment* *ii. the licence pertaining to the waterworks.* *This objective applies only to the extent that it does not unduly reduce the supply of timber from British Columbia's forests.*
Results and Strategies	Where the holder of this FSP harvests timber or constructs roads within a community watershed, as depicted on the FDU maps, the holder will; ▪ for all community watersheds where the TOC operating area occupies the majority of the Community Watershed (>50%), the holder of this FSP will, in consultation with the other licensees who have operations in the Community Watershed, take the lead role to ensure that a watershed assessment has been or will be completed by a qualified professional, ▪ for all community watersheds where the TOC operating area occupies a minority of the Community Watershed area (<50%), the holder of this FSP will, in consultation with the other licensees who have operations in the Community Watershed, endeavour to ensure that a watershed assessment is completed or will be completed by a qualified professional,. ▪ adhere where practicable to the recommendations in all watershed assessments carried out by a qualified professional. Despite the recommendations found in watershed assessment, the holder of this FSP will, as a minimum standard, adhere to the following practices: a) maintain a minimum 5 meter no machine buffer along all streams, wetlands and lakes except at designated road/trail crossings, b) for S4 streams where there is a community water intake, no harvesting will occur within 20 meters of the channel for a minimum of 200 meters upstream of the water intake, c) despite paragraph b) above, where harvesting or road development is proposed; i. Fall and remove or modify a tree that is a safety hazard if there is no other practicable option for addressing the safety hazard, or ii. Fall and remove or modify a tree that have been windthrown or has been damaged by fire, insects disease or other similar cases result in less than 1 hectare clear-cut.
Applicable Exemptions	• Conditional exemption may be granted under *FPPR* 8.2(4) and (5) if this FSP is approved by the Minister.
Applicable FDU's	Okanagan TSA Portions of the following FDU's that drain into the following FDU's: • Ross, Bastion, Sicamous, Mt. Ida, Branchflower, Coldstream, Kal Slopes, Mugford, Mugford_b28, Terrace, Jackpine, Glen Lake, Whitehead, Naramata, Skaha

6.1.1.2.10 Objectives Set by Government for Wildlife and Biodiversity – Landscape Level

Table 6.1.1.2.10 Landscape Level Biodiversoty	
Legal Reference	*FPPR* sec. 9
Provincial Objective	*"Without unduly restraining the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which harvesting is to be carried out that resemble, both spatially and temporally, the pattern of natural disturbance that occur within the landscape".*
Factor	Old Growth
Legal Reference	1. KBHLP order (Oct 26, 2002) 2. RHLP Order (March 25, 2005) 3. Order establishing provincial non-spatial Old Growth Objectives (June 30, 2004)
TSA Objective	**KBHLP – Golden TSA** *"To contribute to the conservation of biodiversity, maintain mature forests in those areas identified in objective 2(2) and old forests to the level indicated in tables 2.1, through 2.4 to all landscape units and associated biodiversity emphasis as defined in objective 1",* **RHLP – Revelstoke TSA** *"To contribute to the conservation of biodiversity, maintain mature and old and old seral forests to the levels indicated in tables 2.1, 2.2, 2.3 and as specified in subsection (b). Requirement levels are to be met at the biogeoclimatic subzone variant level using the variants mapped on map 2.1",* **Okanagan Shuswap TSA (OSLRMP)** *"To contribute to the conservation of biodiversity in the* Okanagan *area licensees must maintain old forest by biogeoclimatic variant within each landscape unit to the amount specified in Appendix 2, Table 1 (Okanagan Old Forest Retention Table), subject to provisions 6-8".*[2]
Results and Strategies	TOC will work with other licensees operating within the same landscape units to apportion the old or mature and old forest retention areas. (1) TOC will not enter into a TSL or Road Permit agreement that will cause any of the above amounts to be reduced, unless the TSL or Road Permit agreement is to salvage forest damaged or destroyed by natural events (fire, insect infestations, blowdown etc.) and provided the stand is no longer suitable to contribute to old growth conservation considering old growth attributes. (2) If sufficient area of mature and old and old seral forests does not exist as a result of a TSL or Road Permit agreement entered into by TOC, the holder of this FSP will recruit replacement forests from the oldest available stands within the landscape unit. (3) This result or strategy no longer applies to the Landscape Units in which the MAL or other authorized representative of government establishes spatial objectives identifying Old Growth Management Areas (OGMA's), provided the area of OGMA's established is consistent with the old seral requirements. *(4)* TOC will follow the default practice requirements as set out in sec. 64 and 65 of the FPPR and deviate from those practice requirements only as specified in sec. 64(2), (3) and (4).
Applicable Exemptions	• *FPPR* sec 12.1(3)
Applicable FDU's	All FDU's

[2] The appendix, table and provision 6-6 can be found at HTTP\\srmwww.gov.bc.ca/sir/lrmp/okan/index.html

6.1.1.2.11 Objectives Set by Government for Wildlife and Biodiversity –Stand Level

Table 6.1.1.2.11	***Stand Level Biodiversity***
Legal Reference	*FPPR* sec. 9,1
Objective	*"Without unduly reducing the supply of timber from British Columbia's forests to retain wildlife trees".*
Default Practice Requirements	TSL's and Road Permits issued by the holder of this FSP will comply with the default practice requirements for • Wildlife tree retention as listed in the *FPPR* sec. 66, and • Coarse woody debris as listed in the *FPPR* sec. 68
Mandatory Practice Requirements	TSL's and Road Permits issued by the holder of this FSP will comply with the mandatory practice requirement for: • Restrictions on harvesting as listed in the *FPPR* sec. 67,
Results and Strategies	• n/a
Applicable Exemptions	• *FPPR* sec. 12.1(4) • *FPPR* sec. 68(2).
Applicable FDU's	All FDU's

6.1.1.2.12 Government Actions Regualtion – Objectives for Visual Quality

Table 6.1.1.2.12 Visual Quality	
Legal Reference	*FPPR* sec. 9.2 KBHLP Order – June 1997 RHLP Order – October 1999
Provincial Objective	*The objective set by government in relation to visual quality for a scenic area, that* *(a) was established on or before October 24, 2002, and* *(b) for which there is no visual quality objective,* *(c) is within a visual sensitivity class 1 is in either the preservation or retention category,* *(d) is within a visual sensitivity class 2 is in either the retention or partial retention category,* *(e) is within a visual sensitivity class 3 is in either the partial retention or modification category,* *(f) is within a visual sensitivity class 4 is in either the partial retention or modification category,* *(g) is within a visual sensitivity class 5 is in either the modification or maximum modification category.*
Factor	Visual Quality
HLP Objective or GAR Objective	**KBHLP – Golden TSA** *Established scenic areas (June 1997) and required the establishment by the DM of Visual Quality Objectives (Section 7 Government Actions Regulation). Existing VQO's declared under the FPC or under DMI (section 17) are grand parented as objectives by government.* **RHLP – Revelstoke TSA** *Existing VQO's declared under the FPC or under DMI (section 17) are grand parented as objectives by government.* **Okanagan TSA** *The Okanagan Shuswap Land and Resource Management Plan (April 11, 2001 non HLP) defines "Zone 1" areas. These areas have been declared "scenic areas" with established VQO's under the FPC and are grand parented as objectives by government.*
Results and Strategies	The holder of this FSP, when constructing a road, or when exercising its timber harvesting rights under this FSP, will comply with the following. 1. Cutblocks and/or roads will be consistent with the established Visual Quality Objectives of the known scenic areas, with the following exceptions: a) Where no other practicable option exists to provide access to those cutblocks or location or roads; or b) Where forest health factors are located within the scenic area to the extent that the EVQO can not be met, the cutblock and road design will, to the extent practicable, mimic naturally occurring landscape characteristics and exhibit elements of appropriate visual design for the landscape..
Applicable Exemptions	n/a
Applicable FDU's	Golden TSA: Esplanade (south 1/8), Blackwater ridge (south 1/8), Mt. Seven (south all) Revelstoke TSA: Frisby Ridge (south 1/5), Jumping Creek (north 1/2), Drimmie Creek (south 2/3), Mt. Revelstoke (all), TFL 23 (east 2/3), Okanagan TSA: Skaha, TFL #15, Whitehead, Glen Lake, Priest Creek, Mission-Greystokes, Kettle, Mugford, Jackpine (TFL #49), Windy, Old Dave, Hudson Bay (TFL #49), Barton, Kal Slopes, ge449 (Harris), Coldstream, Echo, ge416 (Cherry Ridge), Currie Creek , Sugar, ge354, Adelphi, Paxton, Bolean, Branchflower, Wall, Mt. Ida, Gardom Lake, Hunter Blurton, Cooke, Sicamous, Sicamous Research, Sicamous North (TFL #33), Bastion,, Unnamed (west of ge266), White Lake, Chase Harper, A18650, Skimikin, Chum, Hlina, Lamberton, Ross, Yard Creek, Eagle River, Crazy Creek, Anstey, Celista, A18637, Long Ridge, McNomee, TFL 15, TFL 33

6.1.1.2.13 Objectives Set By Government - Cultural Heritage Resources

Table 6.1.1.2.13 Cultural Heritage Resources	
Legal Reference	*FPPR* sec. 10
Objective	*"To conserve, or, if necessary protect cultural heritage resources that are;* *(a) The focus of a traditional use by an aboriginal people that is of continuing importance to that people and,* *(b) Not regulated under the Heritage Conservation Act."*
Results and Strategies	TOC's strategies in respect of the objective set by government for cultural heritage resources are: (a) TOC will protect a cultural heritage resource that has been established as a resource feature by not carrying out or authorizing a person to carry out a primary forest activity that would damage or render ineffective the resource feature, unless authorized to do so by the minister or a person authorized by the minister; (b) TOC will refer to applicable First Nations, on an annual basis, those areas identified for potential timber harvesting and road construction, if any, and request information respecting special cultural heritage resources within the identified areas; (c) TOC will evaluate the nature and extent of a possible site-specific, special cultural heritage resource identified within areas of potential timber harvesting and road construction activities, including making reasonable efforts to share information and/or consult with the applicable First Nations in respect of the possible special cultural heritage resource; (d) TOC will identify in the site plan applicable to an area i. The portion of the area occupied by a special cultural heritage resource, ii. The nature of the special cultural heritage resource, iii. Whether the special cultural heritage resource is to be protected or conserved, and iv. If the special cultural heritage resource is to be conserved, what constraints, if any are to apply to the forest practices carried out on the area (e) For each cultural heritage resource that has been identified in a site plan for protection, TOC will carry out or authorize a person to carry out a forest practice only to the extent that the forest practice does not damage or render ineffective the special cultural heritage resource. (f) For each special cultural heritage resource that has been identified in a site plan for being conserved, TOC will carry out or authorize a person to carry out a forest practice only the extent that he forest practice is consistent with the constraints, if any, specified in the site plan; (g) If a previously unidentified special cultural heritage resource is encountered by the TSM or Agreement Holder while conducting a forest practice, operations will be modified or cease to the extent necessary to protect the resource, until a cultural heritage resource evaluation can be carried out.
Applicable Exemptions	n/a
Applicable FDU's	All

6.1.1.2.14 Objectives Grand Parented for Recreation Features

Table 6.1.1.2.14 Recreation Features	
Legal Reference	*FRPA* sec. 180 & 181
Objective	*Objectives set by government for recreation sites and recreation trails established under the FPC with objectives grand parented under FRPA sec.181 and located within FDUs established under this Plan are listed in Table D1 in Appendix D.*
Results and Strategies	1. The holder of this FSP will not enter into a TSL or Road Permit agreement that will damage or disturb the natural vegetation, creek or lake shoreline, or campsites within a recreation site. 2. Except at designated crossings, the holder of this FSP will not enter into a TSL or Road Permit agreement that will damage or disturb the trail surface, parking area, or natural vegetation within a 10-metre wide reserve zone on either side of a recreation trail. The above noted strategies do not apply to harvesting or road construction: (a) required for safety, fire suppression or to manage pest or disease outbreaks; (b) where it is impracticable in the circumstances or impairs the ability of the Holder of this FSP to exercise its timber harvesting rights in a manner consistent with sections 6(b) and (c) of the *FPPR*; or (c) authorized or required by government.
Applicable Exemptions	n/a
Applicable FDU's	Golden TSA: Blackwater Ridge, Goodfellow, Swan, Esplanade, Mt. Seven, Revelstoke TSA: Wetask, TFL #23, Frisby Ridge, Red Rock Harbour Okanagan TSA: Long Ridge, Celista

6.1.1.2.15 Objectives for Lakeshore Management Zones

Table 6.1.1.2.15 Lakeshore Management Zones	
Legal Reference	• *FRPA* sec. 180 & 191, • District Manager's letter (former Salmon Arm, Vernon and Penticton Forest Districts – August 28, 1997)
Objective	Government Actions Regulation sec. 6.2
Results and Strategies	**Okanagan- Shuswap Forest District** As stated in the District Manager's letter the holder of this FSP will work to the intent outlined in the *"Lake Classification and Lakeshore Management Guidebook for the Kamloops Forest Region." Using the following strategies:* • Follow strategies outlined in the *"Lake Classification and Lakeshore Management Guidebook for the Kamloops Forest Region."*, to meet the objectives for each of the five different classifications of L1 lakes, • All lakes >5 ha and <1000 ha will have a 10 m riparian reserve zone established around them. • All lakes greater than 5 ha in size require the establishment of a lakeshore management zone. For lakes >5 ha and <1000 ha this is established outward to a distance of approximately 200m from the riparian reserve zone. • Lakes >1000 ha have no riparian reserve zone. • The lakeshore management area is made up of both the riparian reserve zone and the lakeshore management zone (LMA = RRZ + LMZ). The RRZ is set by regulation and can vary by agreement of the District Manager and the holder of this FSP the LMA will vary according to the physical and ecological features of each lake. • Table 6.1.1.2.16A outlines the general strategies for riparian reserve zone and riparian management zone widths.

Table 6.1.1.2.15A: Riparian Reserve and Management Zones for various lakes in the Okanagan TSA.

Lake Classification	Area (ha)	Riparian reserve zone (m)	Riparian Management Zone (m)
L1	> 5 ha.	10	200
L2	1-5	10	20
L3	1-5	0	30
L4	1-5	0	30

Columbia Forest District

The following lakes (within TOC FDU's) are less than 5 hectares in size but have been designated as L1 by the District Manager. All L1 lakes inclusive of those listed on the following table are assigned a 10m riparian reserve zone and a 100m lakeshore management zone.

Table 6.1.1.2.15B: Riparian Reserve and Management Zones for Lakes < 5 ha.

Lake Name	RRZ (m)	LMZ (m)	LMA (m)
Echo Lake	10	100	110
Beaver Lake	10	100	110
Begbie Lake	10	100	110
Cranberry Lake	10	100	110
Wetask Lake	10	100	110
Pingston Lake	10	100	110
Jeb Lake	10	100	110
Moose Lake	10	100	110
Dainard Lake	10	100	110

Unless indicated in the preceding table, all L1 lakes in the Columbia forest district >5ha <1000ha will utilize a 10m riparian reserve zone and a 100m lakeshore management zone.

For all other classifications of lakes the riparian zones listed in table 5.1.1.2.17C apply.

Table 6.1.1.2.15C: Riparian Reserve and Management Zones for various Lake Classes.

Riparian Class	RRZ (m)	LMZ (m)	LMA (m)
L1	10	100	110
L2	10	20	30
L3	0	30	30
L4	0	30	30

Reservoirs

As stated in *FRPA* sec.180 (h) and 181, the Arrow, Revelstoke and Kinbasket reservoirs are greater than 1,000 ha. In size and therefore do not require riparian reserve zones.

Applicable Exemptions	n/a	
Applicable FDU's	Golden TSA Revelstoke TSA Okanagan TSA; (Woods	Ice River (Dainard Lake), Blackwater Ridge (Susan/Help/Blackwater/Aid/Comfort Lakes) TFL 23 (Bearpaw/Pingston/Begbie Lakes), Drimmie Creek (Echo Lake), Wetask Lake (Wetask Lake), Jumping Creek (Hanner Lake) White Lake (White/Little White Lakes), Chum (Chum Lake), Chase Harper (Harper Lake),Bolean (Spa/Arthur Lakes), ge343 [Adelphi] Lake), Barton Hills (Sucker/Lavigure Lakes), Barton (Chapperon Lake), Windy (Rat/Ellin/Windy Lakes),Barton Lake (Barton Lake/Old Dave Lakes), Whitehead (Whitehead Lake), Glen Lake (Glen Lake), Skaha (Derenzy/Culper/Allendale Lake), Mission-Greystokes (Loch Lost/Loch Long/Greystokes/Linden Lakes), Kettle (Shiell Lake), Echo (Clier Lake), Coldstream (Bardolph/Becker Lakes), Kal Slopes (Towgood/Damer/High/King Edward/Streak/Oyama Lakes), ge449 (Mosquito/Harris/Nahm/Home Lakes)

7.0 MEASURES

7.1 Measures to Mitigate the Spread of Noxious Weeds

Table 7.1.1 **Noxious Weeds**	
Legal Reference	*FPPR* sec. 17
Measures	If, in the judgement of TOC, it is likely that forest practices will result in introduction and/or spread of invasive plants, and • There is a moderate or high risk invasive plants are likely to germinate on soil exposed that is a result of a TOC's forest practices under this FSP, • it is reasonably expected that grass would grow on the exposed sites, and • it is reasonably foreseeable that re-vegetation with grass seed would materially reduce the likelihood of invasive plant germination, TOC will (a) within two years of TOC completing activities, seed such soil that exceeds 0.1 ha in contiguous area, and (b) give preference to seed (i) with high sod-forming content (except in areas that are planted with tree seedlings), (ii) that has been certified by the Canadian Seed Growers Association that the seed meets the standards for varietal purity established by the Association for the seed of that kind of species (Seeds Act, Seeds Regulation s. 2(1), and (iii) that is of native origin, provided: (a) the seed is readily available, (b) the seed is comparible in cost to agronomic mixtures, and (c) the seed is comparable in effectiveness to agronomic mixtures.
Applicable Exemptions	n/a
Applicable FDU's	All

7.2 Measures to Mitigate the Effect of Removing or Rendering Ineffective Natural Range Barriers

Table 7.2.1 Range Barriers	
Legal Reference	*FPPR* sec. 18
Measures	Where the holder of this FSP conducts forest practices that either: 1. renders a range barrier ineffective, or 2. Removes a range barrier. The holder of this FSP will: • annually, during the term of this FSP will update information on FDU's that are within or adjacent to range tenures by meeting with forest district range staff, • holders of range tenures within FDU's will be informed of proposed cutblocks and roads prior to advertisement and award of a Timber Sale Licence and/or Road Permit, and • if indicated by a range tenure holder by way of notification by the holder of this FSP, that a proposed cutblock or road will remove or render a natural range barrier ineffective, then o reasonable efforts will be made to reach agreement with the range tenure holder to agree on mitigative measures, and o those reasonable measures will be implemented as soon as practicable to ensure a functional range barrier exists.
Applicable Exemptions	n/a
Applicable FDU's	All FDU's where range tenures and barriers are present.

8.0 Stocking Standards

Table 8.1	Stocking Standards
Legal Reference	*FPPR* sec. 16(1)
Measures	For the purposes of *FPPR* 16(1), sec.44(1) of the *FPPR* applies to all FDU's where the holder of this FSP is required to establish a free growing stand, the holder of this FSP will comply with FPPR sec. 16(3) in all FDU's where the holder is required to produce a fee growing stand, a) the applicable stocking standards and applicable regeneration date referred to in sec. 44(1)(a) of the *FPPR*, and b) the applicable stocking standards and free growing height referred to in sec. 44(10(b) of the *FPPR* are subject to the special circumstances as identified below and as set out in Appendix A opposite the BEC zone that applies to the site. **Basis for Stocking Standards** Stocking standards tables are based on the Reference Guide for FDP Stocking Standards, dated December 18, 2003, for the former Kamloops Forest Region and Nelson Forest Region. Where a Biogeoclimatic unit is listed twice in the Table, "Okanagan" applies to FDUs located within Okanagan TSA, TFL 15, TFL 33 and TFL 49 "Columbia" applies to FDUs located within Revelstoke TSA, Golden TSA, TFL 23, TFL 55 and TFL 56. Special Circumstances referred to above include, without limitation: 1. Upper Density Limit a) Upper Density Limit: (sph) - 10,000 countable coniferous trees per hectare. This standard applies to even-aged lodgepole pine stands that are prone to excessive densities, defined as: Pl comprising greater than 75 percent of countable coniferous trees, and limited to IDFdk1, IIDFdk2, IDFdm, MSdm1, MSdm2, ESSFdc1 and ESSFdc2 BGC variants, b) For a coniferous tree to be considered as a countable conifer for determining upper density limit, it must be taller than 20 percent of the height of the median well-spaced trees selected in the plot. c) The holder of the FSP will, more than one year before free growing date, reduce stocking in stands that exceed the upper density limit to a post-spacing density range where: Post Spacing (sph): Min = TSS, Max = TSS x 2 2. Minimum Inter-tree Distance a) Trees must be the greater than or equal to the minimum inter-tree distance to be considered well spaced as defined in Table 8.1A

Table 8.1A: Minimum Inter Tree Distances

Minimum inter-tree distance (m)	Location/Condition
1.0	Planting on mechanically mounded sites and/or to maintain berry resources on important berry producing site series within the Grizzly Bear Resource Management Zones in the Columbia Forest District
1.3	Planting on sites with elevated microsites (natural hummocks and mounds), sites involving a species with a footnote #1 restriction, problem vegetation areas (woody brush - Douglas maple, willow, alder), and very rocky sites.
1.5	Planting on hygric or wetter sites, obstacle planting for cattle damage management or shade for survival n severe sites, and areas with a significant number of residuals.
1.7	planting in the ICHwk1, ICHvk1, ICHmw1, ICHmw2, ICHmw3, ESSFvc, ESSFwc1, ESSFwc2, ESSFw
2.0	all other areas

3. Height of Trees Relative to Competing Vegetation
   a) In addition to meeting the minimum height, tree height must be > the specified percentage relative to competing vegetation within a one metre radius of the trunk as defined in table 8.1B

Table 8.1B: Tree Height Relative to Competing Vegetation.

% Ht Above Competing Vegetation.	Location/condition
125	ESSF, IDF, MS, PP
150	ICH

4. Stocking and Free Growing Surveys:
   - Free growing status will be evaluated using the MOF Stocking and Free Growing Survey Procedures Manual, dated May 21, 2002.
5. M Value for stocking and free growing surveys:
   - The maximum number of healthy, well-spaced trees that may be tallied in a single plot is calculated by dividing the target stocking standard for the BGC variant by the plot multiplier, and is rounded off to the nearest higher whole number if necessary.
6. Minimum Leave Tree Characteristics:
   - Advanced regeneration must meet the requirements of Appendix 10 of the Establishment to Free Growing Guidebook: Kamloops Region or Nelson Region, May 2000, to be acceptable.
7. Dispersed Strata
   - On standards units where dispersed, non-mappable complexes of differing site series are noted, the preferred and acceptable species for the applicable site series (as per table A) shall apply. The target and minimum stocking standards shall be based on the dominant site series.

Applicable Exemptions	• *FPPR* 44(3) (a) – (i)
Applicable FDU's	All FDU's

9.0 SIGNATURES OF PREPARING FORESTER AND PERSON REQUIRED TO PREPARE PLAN

Preparing Forester

"I certify that I have determined that this work was performed to an acceptable standard"

Brian Bedard, R.P.F.
Planning Forester
Okanagan Columbia Timber Sales Office
Okanagan Columbia Business Area

Signature of Person Required to Prepare the Plan

Serge Peverzeroff, R.P.F.
Timber Sales Manager
Okanagan Columbia Timber Sales Office
Okanagan Columbia Business Area

APPENDIX A
Stocking Standard Reference Tables

Rationale for Deviation from Reference Guide

Species that have been raised in acceptability level from the "Reference Guide for Forest Development Plan Stocking Standards", Kamloops Forest Region" table, dated Dec 18, 2003, are indicated in Stocking Standards tables in red text. The rationale for each deviation is presented in table A1:

Table A1: Rationale for Species Deviations.

Species	BEC Subzone/Variant	Rationale
Lw	ICHmk2, ICHmw2, IDFmw2	Measurements of research trial established by MoFR Kalamalka Forestry Centre and surveys of plantations established in Okanagan TSA indicate excellent early performance of Lw in ICHmw3, ICHmk2 and IDFmw2. Licensee will continue to follow trial use restriction (footnote 23).
Lw	MSdm2	Lw is present in MSdm2 in TSA, and observations indicate very good growth performance
Pw	all ICH	Growth potential of Pw in ICH is well established. Availability of blister rust resistant seed is expected to substantially overcome risk of blister rust infection. Licensee will accept only planted, trees of known rust-resistant seed source in stocking and free growing surveys.
Py	ICHmw2/ IDFmw2/01	Surveys of trial plantations established in Okanagan TSA indicate excellent early performance of Py on drier ICH sites and IDFmw2/01. Licensee will use Py on trial basis (footnote 23) as part of the species mixtures on sites susceptible to root diseases.
Sx	ICHmw2/01	Carried over from 01YS site series preferred list.
Pli	ICHmw2/01/ IDFmw1/01	Surveys of numerous plantations in Okanagan TSA indicate that Pl regularly has demonstrated good to excellent long term performance on 01 site series.
Hw	ICHmw3	Licensee considers absence of Hw from reference guide to be an omission, as Hw is acceptable on adjacent drier (03) and wetter (04) site series.
Yc	ICHvk1, ICHwk1	Restricted to trial use only (footnote 23). Observations from small trials indicate promising performance.

[redacted]			Regeneration							Free Growing	
Classification			Species		Stocking(i)				Date		
			Conifer		Target	MIN pa	MIN p	Regen Date		Species	Height
Zone/SZ/Variant	Series		Preferred (p)	Acceptable (a)	(well-spaced/ha)			(yrs)	(yrs)		(m)
ESSFdc1 Okanagan	01	39571	Pl Se	Bl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02	39572	Pl	Bl[13] Se	1000	500	400	7	20	Pl	1.2
										Others	0.6
	03	39573	Pl	Bl[13] Se	1000	500	400	4	20	Pl	1.2
										Others	0.6
	04	39574	Pl Se	Bl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	05	39575	Pl Se	Bl[10,13]	1000	500	400	4	20	Pl	1.2
										Others	0.6
	06	39576	Pl[1]Se[1,32]	Bl[1,32]	1000	500	400	4	20	Pl	1.2
										Others	0.6
ESSFdc2 Okanagan	01	39581	Pl Se	Bl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02*	39582			-	-	-	-	-	-	-
	03	39583	Pl	Bl[13] Se	1000	500	400	4	20	Pl	1.2
										Others	0.6
	04	39584	Pl	Bl[13] Se	1000	500	400	4	20	Pl	1.2
										Others	0.6
	05	39585	Pl Se	Bl[10,13]	1000	500	400	4	20	Pl	1.2
										Others	0.6
	06	39586	Pl Se	Bl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	07	39587	Pl Se[32]	Bl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	08	39588	Pl[1]Se[1,32]	Bl[1,32]	1000	500	400	4	20	Pl	1.2
										Others	0.6

ESSFdk Columbia	01, 03, 04	8501	Pl Sx Fd Lw[14]	Bl	1200	700	600	4	20	Pl, Lw	1.6
										Fd	1.0
										Others	0.8
	02	8502	Fd Lw[14] Pl	Sx	1000	500	400	4	20	Pl, Lw	1.2
										Fd	0.8
										Others	0.6
	05, 06	8505	Bl Pl Sx		1200	700	600	4	20	Pl	1.6
										Others	0.8
ESSFvc	01	39591	Bl Se	Hm	1200	700	600	4	20	All	0.8
Okanagan	02	39592	Se	Bl Hm	1000	500	400	4	20	All	0.6
	03	39593	Bl Se	Hm	1000	500	400	4	20	All	0.6
	04	39594	Bl Se	Hm	1200	700	600	4	20	All	0.8
	05	39595	Bl[1,32] Se[1,32]	Hm[1]	1000	500	400	4	20	All	0.6
ESSFvc	01, 04	8511	Sx Bl Hm[71]		1200	700	600	4	20	All	0.8
Columbia	02, 03, 05	8512	Sx Bl Hm[71]		1000	500	400	4	20	All	0.6
ESSFvv	01	39601	Bl[32] Se[32]	Hm[16]	1200	700	600	4	20	All	0.8
Okanagan	02	39602	Bl[32] Se[32]	Hm[16]	600	400	400	7	20	All	0.6
	03	39603	Bl[32] Se[32]	Hm[16]	1000	500	400	7	20	All	0.6
	04	39604	Bl[32] Se[32]	Hm[16]	600	400	400	4	20	All	0.6
ESSFvv	01	8641	Bl Sx	Hm	1200	700	600	4	20	All	0.8
Columbia	02, 04	8642	Bl Sx	Hm, Pl	600	400	400	4	20	Pl	1.2
										Others	0.6
	03	8643	Bl Sx	Hm	1000	500	400	4	20	All	0.6
ESSFwc1 Columbia	01, 03, 04	8521	Bl Sx Pl[23]	Cw Hm Hw	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02	8522	Pl Sx Bl	Cw Hm Hw	1000	500	400	4	20	Pl	1.2
										Others	0.6
ESSFwc2	01	39611	Bl Se		1200	700	600	4	20	All	0.8
Okanagan	02	39612	Pl[17] Se[10,13]	Bl[10,13,14]	1000	500	400	4	20	All	0.6
	03	39613	Se Pl[17,34]	Bl[10,13,14]	1000	500	400	4	20	All	0.6
	04	39614	Bl Se		1200	700	600	4	20	All	0.8
	05	39615	Bl Se		1200	700	600	4	20	All	0.8
	06	39616	Bl[32] Se[32]		1200	700	600	4	20	All	0.8
	07	39617	Bl[32] Se[32]		1200	700	600	4	20	All	0.8
	08	39618	Bl[1,32] Se[1,32]		1000	500	400	4	20	All	0.6
	09	39620	Pl[1]Se[1,32]	Bl[1,32]	400	200	200	4	20	All	0.6

ESSFwc2 Columbia	01, 04, 05, 06, 07	8531	Bl Sx	Pl[23] Hm	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02	8532	Pl Sx	Bl Hm	1000	500	400	4	20	Pl	1.2
										Others	0.6
	03, 08	8533	Bl Sx Pl [23]	Hm	1000	500	400	4	20	Pl	1.2
										Others	0.6
	09*	8539	Pl Sx	Bl Hm	400	200	200	4	20	Pl	1.2
										Others	0.6
ESSFwc3 Columbia Any in TOC?	01	8561	Bl Sx	Pl	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02	8612	Bl Sx	Pl	1000	500	400	4	20	Pl	1.2
										Others	0.6
	03*	8613	Bl Sx		400	200	200	4	20	All	0.6
ESSFwc4 Okanagan	01	39631	Bl Se	Pl[34]	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02	39632	Se Pl[34]	Bl	1000	500	400	4	20	Pl	1.2
										Others	0.6
	03	39633	Se Bl	Pl[34]	1000	500	400	4	20	Pl	1.2
										Others	0.6
	04	39634	Se Bl	Pl[34]	1200	700	600	4	20	Pl	1.6
										Others	0.8
	05	39635	Bl Se		1200	700	600	4	20	All	0.8
	06	39636	Bl[1,32] Se[1,32]		1200	700	600	4	20	All	0.8
	07	39637	Se[1] Bl[1]	Pl[1,34]	1000	500	400	4	20	Pl	1.2
										Others	0.6
ESSFwc4 Columbia	01, 04, 05	8541	Bl Sx Pl[23]	Hm	1200	700	600	4	20	Pl	1.6
										Others	0.8
	02, 03, 07	8542	Sx Pl Bl	Hm	1000	500	400	4	20	Pl	1.2
ESSFwm Columbia	01	8551	Bl Sx Fd[14] Lw[14]	Pl	1200	700	600	4	20	Lw, Pl	2.0
										Others	1.0
	02	8552	Sx Pl	Bl Hw[14]	1200	700	600	4	20	Pl	2.0
										Others	1.0
	03	8553	Fd Lw Sx	Bl Pl Pw[57] Hw	1200	700	600	4	20	Pl	2.0
										Lw	2.0
										Fd, Pw	1.4
										Others	1.0
	04	8554	Bl Sx	Pl Hw[14]	1200	700	600	4	20	Pl	2.0
										Others	1.0

ESSFxc Okanagan	01	39621	Pl Se^{32}	Bl^{10,13}	1200	700	600	4	20	Pl Others	1.6 0.8
	02	39622	Pl	Bl^{13} Se	600	400	400	7	20	Pl Others	1.2 0.6
	05	39625	Pl	Bl^{13} Se	1000	500	400	7	20	Pl Others	1.2 0.6
	06	39626	Pl Se	Bl^{13}	1200	700	600	7	20	Pl Others	1.6 0.8
	07	39627	Pl Se^{32}	Bl^{32}	1200	700	600	4	20	Pl Others	1.6 0.8
	08	39268	Pl^{1}Se^{1,32}	Bl^{1,32}	1000	500	400	4	20	Pl Others	1.2 0.6
ICHmk1 Okanagan	01	34401	Fd^{14,32} Lw^{14,32} Pl Sx^{10,13}	Bl^{10,13} Cw^{10,13,32}	1200	700	600	4	15	Pl, Lw Fd Others	2.0 1.4 1.0
	02	34402	Fd Pl	Bl^{10,13} Sx^{10,13}	600	400	400	4	15	Pl Fd Others	1.4 1.0 0.8
	03	34403	Fd Lw Pl Sx^{10,13}	Bl^{10,13} Cw^{10,13}	1000	500	400	4	15	Pl, Lw Fd Others	1.4 1.0 0.8
	04	34404	Fd^{32} Lw^{32} Pl Sx^{10,13}	Bl^{10,13} Cw^{10,13,32}	1200	700	600	4	15	Pl, Lw Fd Others	2.0 1.4 1.0
	05	34405	Pl Sx Fd^{9,14,32} Lw^{9,14,32}	Bl Cw^{32}	1200	700	600	4	15	Pl, Lw Fd Others	2.0 1.4 1.0
	06	34406	Pl Sx Fd^{9,14,32} Lw^{9,14,32}	Bl Cw^{32}	1200	700	600	4	15	Pl, Lw Fd Others	2.0 1.4 1.0
	07	34407	Pl^{1} Sx^{1} Fd^{1,32} Lw^{1,32}	Bl^{1} Cw^{32}	1000	500	400	4	15	Pl, Lw Fd Others	1.4 1.0 0.8

ICHmk1 Columbia	01, 04	8651	Fd[14] Lw[14] Pl Sx	Bl Cw	1200	700	600	4	20	Pl, Lw	2.0
										Fd	1.4
										Others	1.0
	02	8652	Fd Pl	Sx Py[9,14] Bl	600	400	400	4	20	Pl	1.4
										Fd	1.0
										Others	0.8
	03	8653	Fd Lw Pl Sx	Cw Bl	1000	500	400	4	20	Pl, Lw	1.4
										Fd	1.0
										Others	0.8
	05, 06	8655	Pl Sx Fd[14]	Bl Lw[14] Cw	1200	700	600	4	20	Pl, Lw	2.0
										Fd	1.4
										Others	1.0
	07	8657	Pl Sx Fd	Bl Cw Lw	1000	500	400	4	20	Pl, Lw	1.4
										Fd	1.0
										Others	0.8
ICHmk2 Okanagan	01	34411	Fd Pl Sx Lw[9,14,32]	Bl[10,13] Cw	1200	700	600	4	15	Pl, Lw	2.0
										Fd	1.4
										Sx	0.8
										Others	1.0
	02	34412	Fd Pl	Bl[10,13]	600	400	400	4	15	Pl	2.0
										Fd	1.4
										Others	1.0
	03	34413	Fd Pl Sx[10,13] Lw[9]	Bl[10,13] Cw[10,13]	1000	500	400	4	15	Pl	2.0
										Fd	1.4
										Others	1.0
	04	34414	Fd Pl Lw[9] Sx	Bl[10,13] Cw[10,13]	1200	700	600	4	15	Pl, Lw	2.0
										Fd	1.4
										Sx	0.8
										Others	1.0
	05	34415	Fd[9,14,32,Pl] Sx	Bl[13] Cw[32]	1200	700	600	4	15	Pl	2.0
										Fd	1.4
										Others	1.0
	06	34416	Pl[1] Sx[1] Fd[1,32]	Bl[1] Cw[32]	1000	500	400	4	15	Pl	1.4
										Fd	1.0
										Others	0.8

ICHmw1 Columbia	01, 03	8661	Fd Pl Cw Sx Lw[23] Hw[71]	Bl Pw[57]	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	02, 04	8662	Fd Pl Lw[23]	Cw[28] Sx[28] Bl[28] Hw[28] Pw[57]	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	05, 06	8665	Cw Fd Hw Sx Lw[14,23]	Bl Pl Pw[57]	1200	700	600	4	20	Pl, Lw Fd, Pw Others	2.0 1.4 1.0
	07	8667	Cw Hw Sx Fd[14]	Bl Pl	1000	500	400	4	20	Pl Fd Others	1.4 1.0 0.8
ICHmw2 Okanagan	01	34421	Fd Lw Pl[51] Sx[10,13] Pw[31]	Hw Bl[10,13] Cw Py[10,13]	1200	700	600	4	15	Pl,Pw,Lw Fd Others	2.0 1.4 1.0
	02	34422	Fd Lw Pl[51] Py[10,13]	Cw Pw[31] Sx[10,13] Sx	1200	700	600	4	15	Pl,Pw,Lw Fd Others	2.0 1.4 1.0
	03	34423	Fd Lw Pl[51] Py[10,13]	Cw Bl[10,13] Pw[31] Sx[10,13]	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	04	34424	Cw Fd[14] Hw Lw[14] Sx Pw[31]	Bl Pl[51]	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	05	34425	Cw[32] Sx Fd[1,32] Pw[31] Lw[1,32]	Bl Hw[32] Pl[51]	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	06	34426	Cw[1,32] Sx[1]	Bl[1] Hw[1,32] Pw[1,31]	1000	500	400	4	15	Pl, Pw Others	1.4 0.8
	07	34428	Cw[1,32] Sx[1]	Bl[1] Hw[1, 32]	1000	500	400	4	15	Pl Others	1.4 0.8

ICHmw3 Okanagan	01	34431	Fd Lw Cw$^{10.13}$ Sx$^{10.13}$ Pw^{31}	Bl$^{10.13}$ Cw Hw	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	02	34432	Fd Lw Pl^{51}	Cw$^{10.13}$ Pw^{31}	1000	500	400	4	15	Lw,Pl,Pw Fd Py	1.4 1.0 0.8
	03	34433	Fd Pl^{51} Lw Pw	Cw Bl$^{10.13}$ Pw^{31} Sx$^{10.13}$	1000	500	400	4	15	Pl, Pw Lw Fd Others	1.4 1.4 1.0 0.8
	04	34434	Fd Pl^{51} Lw Pw	Cw Sx$^{10.13}$	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	05	34435	Fd Cw$^{10.13}$ Sx$^{10.13}$ Pw	Bl$^{10.13}$	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	06	34436	Cw Fd^{14} Hw Sx Pw	Bl	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	07	34437	Cw^{32} Sx Fd$^{1.32}$ Pw	Bl Hw^{32}	1200	700	600	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	07$^{9.1}$	34438	Cw^{32} Sx Fd$^{1.32}$ Pw	Bl Hw^{32}	900	600	500	4	15	Pl, Pw Lw Fd Others	2.0 2.0 1.4 1.0
	08	34439	Cw$^{1.32}$ Hw$^{1.32}$ Sx^{1} Pl$^{1.51}$	Bl Pw^{31}	1000	500	400	4	15	Pl Other	1.4 0.8

ICHmw3 Columbia	01, 01-YC, 04, 05, 06	8681	Fd Cw Sx Hw Lw^{23} Pl^{71}	Pw^{57} Bl	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	02	8682	Fd Pl Lw^{23}	$Py^{14,23}$ Pw^{57}	1000	500	400	4	20	Pl, Lw Fd, Pw Py	1.4 1.0 0.8
	03	8683	Fd Pl Lw^{23} Cw Hw^{23}	Pw^{57} Sx Bl	1000	500	400	4	20	Pl Lw Fd, Pw Others	1.4 1.4 1.0 0.8
	07	8687	Cw Sx Fd Hw Pl^{71}	Bl Pw^{57} Lw^{23}	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	08	8688	Cw Hw Sx Pl	Bl Pw^{57}	1000	500	400	4	20	Pl Others	1.4 0.8
ICHvk1 Okanagan	01	34441	Cw^{32} Sx Pw^{1}	Bl $Fd^{1,14,32,34,70}$ Hw^{32}	1200	700	600	4	15	Pw Fd Others	2.0 1.4 1.0
	02	34442	Cw Fd^{9} Sx Pw^{1}	Bl Hw	1200	700	600	4	15	Pw Fd Others	2.0 1.4 1.0
	03	34443	Cw $Fd^{9,14,34}$ Hw Sx Pw^{1}	$Bl^{10,13}$	1200	700	600	4	15	Pw Fd Others	2.0 1.4 1.0
	04	34444	Cw $Fd^{14,34,70}$ Hw Sx Pw^{1}	Bl^{13}	1200	700	600	4	15	Pw Fd Others	2.0 1.4 1.0
	05	34445	$Cw^{1,32}$ Sx^{1}	Bl^{1} $Pw^{1,31}$ Yc^{2} $Hw^{1,32}$	1000	500	400	4	15	Pw Others	1.4 0.8
	05^{61}	34446	$Cw^{1,32}$ Sx^{1}	Bl^{1} $Pw^{1,31}$ Yc^{2} $Hw^{1,32}$	900	600	500	4	15	Pw Others	1.4 0.8
	06	34447	$Cw^{1,32}$ $Hw^{1,32}$ Sx^{1}	Bl^{1} $Pw^{1,31}$	1000	500	400	4	15	Pl Others	1.4 0.8

ICHvk1 Columbia	01, 04	8691	Cw Sx Hw Bl^{23} Fd^{14,70}	Pw^{57} Yc^{23}	1200	700	600	4	20	Lw Fd, Pw Others	2.0 1.4 1.0
	03	8693	Fd^{70} Cw Sx Hw Bl^{23}	Pw^{57}	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	05, 06	8695	Cw Sx Hw	Bl Pw^{57} Yc^{23}	1000	500	400	4	20	Pl Others	1.4 0.8
ICHwk1 Okanagan	01	34451	Cw Fd^{14} Hw Sx Pw^{31}	Bl^{10,13} Yc^{31}	1200	700	600	4	15	Pw,Lw Fd Others	2.0 1.4 1.0
	02	34452	Fd Pl^{51} Cw^{10,13}	Sx^{10,13} Pw^{31}	1000	500	400	4	15	Pw,Lw Fd Others	1.4 1.0 0.8
	03	34453	Fd Cw^{10,13} Pw^{31}	Sx^{10,13} Hw^{10,13}	1200	700	600	4	15	Pw Fd Others	2.0 1.4 1.0
	04	34454	Sx^{10,13} Cw Fd^{9,14} Pw^{31}	Hw	1200	700	600	4	15	Pl, Pw Fd Others	2.0 1.4 1.0
	05	34455	Cw^{32} Sx Pw^{31}	Bl Fd^{1,14,32} Hw^{32} Yc^{31}	1200	700	600	4	15	Pl, Pw Fd Others	2.0 1.4 1.0
	05$^{9.1}$	34456	Cw^{32} Sx Pw^{31}	Bl Fd^{1,14,32} Hw^{32} Yc^{31}	900	600	500	4	15	Pl, Pw Fd Others	2.0 1.4 1.0
	06	34457	Cw^{1,32} Sx^{1}	Bl Hw^{1,32} Pw^{1,31}	1000	500	400	4	15	Pl, Pw Others	1.4 0.8
	07	34459	Cw^{1,32} Hw^{1,32} Sx^{1}	Bl^{1}	1000	500	400	4	15	Pl Others	1.4 0.8

ICHwk1 Columbia	01, 04, 05	8701	Cw Fd Hw Sx $Lw^{14,23}$ Bl^{23}	Pw^{57} Yc^{23} Pl^{23}	1200	700	600	4	20	Pl Lw Fd, Pw Others	2.0 2.0 1.4 1.0
	03	8703	Fd Pl	Bl Cw Hw Pw^{57} Sx	1000	500	400	4	20	Pl Pw Fd Others	1.4 1.0 0.8
	06, 07, 08	8706	Cw Sx Hw Bl^{23}	Pw^{57} Pl^{23}	1000	500	400	4	20	Pl Others	1.4 0.8
IDFdk1 Okanagan	01	28701	Pl Fd^{32}	$Sx^{10,13}$ $Py^{9,14}$	1000	500	400	7	15	Pl, Lw Fd Sx, Py	1.0 0.8 0.6
	02	28702	Fd^{27} $Py^{9,14}$		600	400	400	7	15	Fd Py	0.8 0.6
	03	28703	Fd Pl	$Py^{9,14,23}$	600	400	400	7	15	Pl Fd Py	1.0 0.8 0.6
	04	28704	Fd Pl	$Sx^{10,13}$ $Py^{9,14,23}$	1000	500	400	7	15	Pl Fd Others	1.0 0.8 0.6
	05	28705	$Fd^{9,14,32}$ Sx	$Bl^{10,13}$ Pl	1000	500	400	7	15	Pl,Lw Fd Others	1.0 0.8 0.6
	06	28706	Pl^{1} Sx^{1}	$Fd^{1,32}$ Bl^{1}	1000	500	400	4	15	Pl Fd Others	1.0 0.8 0.6

IDFdk2 Okanagan	01	28711	Pl Fd^{32}	$Sx^{10.13}$ $Py^{9.14}$	1000	500	400	4	15	Pl, Lw Fd Sx, Py	1.0 0.8 0.6
	02	28712	Fd^{27} Py^{14}		600	400	400	4	15	Fd Py	0.8 0.6
	03	28713	Fd^{32} Pl	Py^{14}	1000	500	400	4	15	Pl Fd Py	1.0 0.8 0.6
	04	28714	Fd^{32} Pl $Sx^{10.13}$	$Py^{9.14}$	1200	700	600	4	15	Pl, Lw Fd Sx, Py	1.4 1.0 0.8
	05	28715	Fd^{32} Sx Pl	Cw^{32}	1200	700	600	4	15	Pl, Lw Fd Others	1.4 1.0 0.8
	06	28716	Pl^{1} Sx^{1} $Fd^{1.32}$		1000	500	400	4	15	Pl Fd Others	1.0 0.8 0.6
	07	28717	Pl^{1} Sx^{1}	Cw^{32}	1000	500	400	4	15	Pl Others	1.0 0.6
IDFdm1 Okanagan	01	28721	Fd^{32} Lw^{32} Pl	$Py^{9.14}$ $Sx^{10.13}$	1000	500	400	7	15	Pl, Lw Fd Others	1.0 0.8 0.6
	03	28723	Fd^{27} $Py^{9.14}$	Pl	600	400	400	7	15	Pl Fd Py	1.0 0.8 0.6
	04	28724	Fd^{32} Lw^{32} Pl $Py^{9.14}$	$Sx^{10.13}$	1000	500	400	7	15	Pl, Lw Fd Others	1.0 0.8 0.6
	05	28725	Fd^{32} Lw^{32} Pl $Sx^{10.13}$	$Py^{9.14}$ Cw^{32}	1200	700	600	7	15	Pl, Lw Fd Sx	1.4 1.0 0.8
	06	28726	Fd^{32} Lw^{32} Sx	Pl Cw^{32}	1200	700	600	4	15	Pl, Lw Fd Others	1.4 1.0 0.8
	07	28727	Pl^{1} Sx^{1}	$Fd^{1.32}$ $Lw^{1.32}$	1000	500	400	4	15	Pl, Lw Fd Others	1.0 0.8 0.6

IDFdm2 Columbia	01	8751	Fd Lw Py	Pl	1000	500	400	4	20	Pl, Lw Fd Py	1.0 0.8 0.6
	03	8753	Fd^{27} Py Lw		600	400	400	4	20	Pl, Lw Fd Py	1.0 0.8 0.6
	04	8754	Fd Lw Pl Sx		1200	700	600	4	20	Pl, Lw Fd Others	1.4 1.0 0.8
	05, 07	8755	Pl Sx Fd Lw		1000	500	400	4	20	Pl, Lw Fd Sx	1.0 0.8 0.6
IDFmw1 Okanagan	01	28731	Fd^{32} Lw^{32} Pl	$Cw^{10.13}$ $Sx^{10.13}$ $Py^{9.14}$	1200	700	600	4	15	Pl, Lw Fd Others	1.6 1.0 0.8
	02	28732	Fd^{27} Py	Pl	600	400	400	4	15	Pl Fd Py	1.2 0.8 0.6
	03	28733	Fd^{27} $Py^{9.14}$	Pl $Lw^{10.13}$	600	400	400	4	15	Pl, Lw Fd Py	1.2 0.8 0.6
	04	28734	Fd Lw Pl	$Cw^{10.13}$ $Sx^{10.13}$ $Py^{9.14.16}$	1000	500	400	4	15	Pl, Lw Fd Others	1.2 0.8 0.6
	05	28735	Sx Fd^{32} Lw^{32}	Pl Cw	1200	700	600	4	15	Pl, Lw Fd Others	1.6 1.0 0.8
	06	28736	Sx $Fd^{1.32}$ $Lw^{1.32}$	Cw	1200	700	600	4	15	Pl, Lw Fd Others	1.6 1.0 0.8

IDFmw2	01	28741	Fd Pl	$Cw^{10,13}$ $Lw^{[illegible]}$ $Sx^{10,13}$ $Bl^{10,13}$	1200	700	600	4	15	Pl, Lw	1.6
Okanagan										Fd	1.0
										Others	0.8
	02	28742	Fd^{27} Pl	$Py^{9,14,16}$	600	400	400	4	15	Fd	0.8
										Py	0.6
	03	28743	Fd^{14} Pl	$Py^{9,14,16}$ $Cw^{10,13}$ $Sx^{10,13}$ $Lw^{[illegible]}$	1000	500	400	4	15	Pl, Lw	1.6
										Fd	1.0
										Others	0.8
	04	28744	Fd^{32} Sx Pl	$Lw^{[illegible]}$ $Cw^{32,37}$	1200	700	600	4	15	Pl, Lw	1.6
										Fd	1.0
										Others	0.8
	05	28745	Pl^{1} Sx^{1}	$Cw^{1,32}$	400	200	200	4	15	Pl	1.2
										Others	0.6
IDFxh1	01	28751	Fd^{27} Py	$Lw^{1,10,13,32}$	1000	500	400	7	15	All	0.6
Okanagan	02*	28752	Py Fd^{27}		400	200	200	7	15	All	0.6
	03	28753	Py Fd^{27}		600	400	400	7	15	All	0.6
	04	28754	Py Fd^{27}		600	400	400	7	15	All	0.6
	05	28755	Py Fd^{27}		600	400	400	7	15	All	0.6
	06	28756	Fd^{27} Py	$Lw^{1,10,13,32}$	1000	500	400	7	15	All	0.6
	07	28757	Fd Py	$Lw^{1,10,13,32}$ Cw^{37}	1000	500	400	7	15	All	0.6
	08	28758	$Fd^{1,32}$ Sx Pl^{1}	Cw^{37}	1200	700	600	4	15	Pl,Lw	1.0
										Others	0.8
IDFxh2	01	28761	Fd^{27} Py		1000	500	400	7	15	All	0.6
Okanagan	02	28762	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
	03	28763	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
	04	28764	Py Fd^{27}		600	400	400	7	15	All	0.6
	05	28765	Fd^{27} Py		1000	500	400	7	15	All	0.6
	06	28766	Fd Py		1200	700	600	7	15	All	0.6
	07	28767	Fd^{32} Sx	Py^{32} Cw^{32}	1200	700	600	4	15	All	0.6
	08	28768	Sx^{1} $Fd^{1,32}$	$Pl^{1,23}$	1000	500	400	4	15	Pl	0.8
										Others	0.6

MSdk Columbia	01, 04, 05, 06	8761	Fd Lw Pl Sx	Bl	1200	700	600	4	20	Pl, Lw	1.4
										Others	0.8
	03	8763	Fd Lw Pl	Sx Bl	1000	500	400	4	20	Pl, Lw	1.0
										Others	0.6
MSdm1 Okanagan	01	28771	Pl Sx $Lw^{9,14,32}$	Bl $Fd^{9,14,32}$	1200	700	600	7	15	Pl, Lw	1.4
										Others	0.8
	02	28772	Fd Pl Lw		600	400	400	7	15	Pl, Lw	1.0
										Others	0.6
	03	28773	Pl Fd^{32} Lw^{32}	$Sx^{10,13}$	1000	500	400	7	15	Pl, Lw	1.0
										Others	0.6
	04	28774	$Fd^{14,32}$ $Lw^{14,32}$ Pl	$Sx^{10,13}$	1200	700	600	7	15	Pl, Lw	1.4
										Others	0.8
	05	28775	Pl Sx	$Bl^{10,13}$ $Fd^{9,14,32}$ $Lw^{9,14,32}$	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	06	28776	Pl Sx	Bl $Fd^{9,14,32}$ $Lw^{9,14,32}$	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	07	28777	Pl^{1} Sx^{1}	Bl^{1}	1000	500	400	4	15	Pl	1.0
										Others	0.6
MSdm2 Okanagan	01	28781	Pl Sx $Fd^{9,14,32}$	$Bl^{10,13}$ $Lw^{14,23,32}$	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	03	28783	$Fd^{9,14}$ Pl	$Bl^{10,13}$ $Sx^{10,13}$	1000	500	400	4	15	Pl	1.0
										Others	0.6
	04	28784	Pl $Fd^{9,14,32}$ $Sx^{10,13}$	$Bl^{10,13}$ $Lw^{14,23,32}$	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	05	28785	Pl Sx $Fd^{9,14,32}$	Bl Cw^{32} $Lw^{14,23,32}$	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	06	28786	Pl Sx $Fd^{9,14,32}$	Bl	1200	700	600	4	15	Pl, Lw	1.4
										Others	0.8
	07	28787	Pl Sx	Bl	1000	500	400	4	15	Pl	1.4
										Others	0.8

MSxk	01	28791	Pl $Sx^{10.13}$ $Fd^{9.14.32}$	$Bl^{10.13}$	1200	700	600	7	15	Pl	1.4
Okanagan										Others	0.8
	02	28792	Pl $Fd^{9.14}$	$Bl^{10.13}$	1000	500	400	7	15	Pl	1.0
										Others	0.6
	05	28795	Pl $Fd^{9.14}$	$Bl^{10.13}$ $Sx^{10.13}$	1000	500	400	7	15	Pl	1.0
										Others	0.6
	06	28796	Pl $Fd^{9.14.32}$ $Sx^{10.13}$	$Bl^{10.13}$	1200	700	600	7	15	Pl, Lw	1.4
										Others	0.8
	07	28797	Pl Sx $Fd^{9.14.32}$	$Bl^{10.13}$	1200	700	600	4	15	Pl	1.4
										Others	0.8
	08	28798	Pl Sx $Fd^{9.14.32}$	Bl	1200	700	600	4	15	Pl	1.4
										Others	0.8
	09	28799	Pl^{1} Sx^{1}	Bl^{1}	1000	500	400	4	15	Pl	1.0
										Others	0.6
PPxh1	01	39641	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
Okanagan	02*	39642	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
	04	39644	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
	05	39645	Py^{27} Fd^{27}		400	200	200	7	15	All	0.6
	06	39646	Fd Py^{27}		600	400	400	7	15	All	0.6
	07	39647	Fd Py		1000	500	400	7	15	All	0.6
	08	39648	Fd^{1} Sx^{1}	$Py^{1,32}$	1000	500	400	4	15	All	0.6

Uneven-aged Stocking Standards* – Single-tree selection only[1]

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5
Target from Table A standards	**Layer****	**Stocking*****			**Target from Table A standards**	**Layer****	**Stocking*****		
		Target pa	MIN pa	MIN p			Target pa	MIN pa	MIN p
(stems/ha)		(well-spaced/ha)			(stems/ha)		(well-spaced/ha)		
1200	1	600	300	250	**800**	1	300	150	150
	2	800	400	300		2	400	200	200
	3	1000	500	400		3	600	300	300
	4	1200	700	600		4	800	400	400
1000	1	400	200	200	**600**	1	300	150	150
	2	600	300	250		2	400	200	200
	3	800	400	300		3	500	300	300
	4	1000	500	400		4	600	400	400
900	1	400	200	200	**400**	1	200	100	100
	2	500	300	250		2	300	125	125
	3	700	400	300		3	300	150	150
	4	900	500	400		4	400	200	200

Regeneration date is **seven years**. Regeneration date can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets minimum stocking standards.

Free growing date is the default date specified in Forest Planning and Practices Regulation, section 44(1)(b).

Preferred and acceptable species, "Target from Table A standards", and minimum height at free growing are as specified in Table A by biogeoclimatic ecosystem classification (BEC) variant and site series.

ID # for Standards Units using Uneven-Aged Stocking Standards is the combination of the ID # shown in TABLE A for the corresponding BEC variant and site series, suffixed with a "u".

Stand Layer Definition

Layer 1	Mature	trees >= 12.5 cm dbh
Layer 2	Pole	trees 7.5 cm to 12.4 cm dbh
Layer 3	Sapling	trees >= 1.3 m height to 7.4 cm dbh
Layer 4	Regeneration	trees < 1.3 m height

*** MIN = minimum stocking pa - preferred and acceptable species p - preferred species

[1]The practice of Single Tree Selection is as defined in the Silviculture Systems Guidebook (Apr 1995) and the Silviculture Systems Handbook for British Columbia (October 2001).

Conifer Tree Species

"Ba" means amabilis fir;
"Bg" means grand fir;
"Bl" means subalpine fir;
"Bp" means noble fir;
"Cw" means western red cedar;
"Fd" means Douglas-fir;
"Hm" means mountain hemlock;
"Hw" means western hemlock;
"Lt" means tamarack;
"Lw" means western larch;
"Pa" means whitebark pine;
"Pl" means lodgepole pine;
"Pw" means white pine;

"Py" means ponderosa pine;
"Sb" means black spruce;
"Se" means Engelmann spruce;
"Ss" means Sitka spruce;
"Sw" means white spruce;
"Sx" means hybrid spruce or interior spruce;
"Sxs" means hybrid Sitka spruce;
"Sxw" means hybrid white spruce;
"Yc" means yellow cedar;

Broadleaf Tree Species

"Acb" means balsam poplar;
"Act" means black cottonwood;
"At" means trembling aspen;
"Dr" means red alder;
"Ep" means common paper birch;
"Mb" means bigleaf maple;
"Qg" means garry oak;
"Ra" means arbutus;

"**Biogeoclimatic unit**" or "**BGC classification**" means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.

Where a Biogeoclimatic unit is listed twice in the Table, **"Okanagan"** applies to FDUs located within Okanagan TSA, TFL 15, TFL 33 and TFL 49
"Columbia" applies to FDUs located within Revelstoke TSA, Golden TSA, TFL 23, TFL 55 and TFL 56

"**MIN** or "**Min**" means minimum.

"**p**" means Preferred, "**a**" means Acceptable

Footnote #	Footnote
1	elevated microsites are preferred
2	suitable on thick forest floors
3	restricted to coarse-textured soils
4	restricted to medium-textured soils
5	footnote retired
6	restricted to nutrient-very-poor sites
7	restricted to nutrient-medium sites
8	restricted to steep slopes
9	restricted to southerly aspects
10	restricted to northerly aspects
11	restricted to crest slope positions
12	suitable on cold air drainage sites
13	restricted to upper elevations of biogeoclimatic unit
14	restricted to lower elevations of biogeoclimatic unit (species not acceptable within 200m of units max elevation)
15	restricted to northern portion of biogeoclimatic unit in region
16	restricted to southern portion of biogeoclimatic unit in region
17	restricted to western portion of biogeoclimatic unit in region
18	restricted to eastern portion of biogeoclimatic unit in region
19	restricted, not in Queen Charlotte Islands
20	restricted, not near outer coast
21	restricted to mainland
22	restricted to southern Gardner Canal-Kitlope area
23	restricted to trial use, max 20% of well spaced P&A
24	suitable (as a major species) in wetter portion of biogeoclimatic unit
25	suitable on sites lacking salal
26	suitable minor species on salal-dominated sites
27	partial canopy cover required for successful establishment
28	limited by moisture deficit
29	risk of heavy browsing by moose
30	risk of porcupine damage
31	risk of white pine blister rust
32	limited by growing-season frosts
33	footnote retired and replaced with footnote 'a'
34	risk of snow damage
35	risk of weevil damage
36	suitable major species on salal-dominated sites
37	risk of heart rots
38	footnote retired
39	avoid exposed and windy sites
40	risk of redheart
41	limited by poorly drained soils
42	restricted to fresh soil moisture regimes
43	suitable on mainland coast only (QCI only)
44	suitable in areas with stronger maritime influence
45	suitable in areas with stronger continental influence

Footnote #	Footnote
46	restricted to area north of the Dean Channel
47	risk of balsam woolly adelgid
48	risk of heavy browsing by deer
49	applies only to rust resistant, planted stock.
50	restricted to sites where the species occurs as a major species in a pre-harvest, natural stand
51	severe risk of needle blight, snow press and bear damage, restricted to areas with proven Pl performance
52	restricted to sheltered microsites with deep soil
53	minor component
54	risk of unsuccessful release of advance regeneration
55	acceptable in sx-sm portion of site series

Broadleaf Management Constraints

#	
a	productive, reliable, and feasible regeneration option
b	limited in productivity, reliability and/or feasibility

Localized Footnotes

#	
56	**Kalum** forest district - spruce content restricted to < 20% well-spaced and free growing trees on a standards unit due to leader weevil.
57	**Columbia** forest district - Pw rust-resistant stock may be preferred to a max 50% of preferred and acceptable well-spaced stems.
58	**Arrow** forest district - Fd limited to a max 50% of preferred and acceptable well-spaced stems due to root rot.
59	**Prince George region** - max 1,400 total sph of aspen and cottonwood. Treat as 'ghost' trees in surveys.
60	**Squamish** forest district - species is acceptable in Squamish forest district only.
61	**Squamish** forest district only - acceptable on cold air drainage sites only.
62	**S. Island** forest district - may only be used as acceptable species within the balsam woolly adelgid quarantine zone.
63	**Queen Charlotte Islands** forest district - must meet district manager specified minimum well-spaced preferred stems per hectare and minimum height requirements for *Cw and/or Yc*
64	**North Coast** forest district - species is preferred in North Coast forest district only.
65	**North Coast** forest district - species is acceptable in North Coast forest district only.
66	**Mackenzie** forest district - may be preferred where risk of snow damage is low or where risk of frost damage is excessive on spruce
67	**Chilliwack** forest district - species is acceptable in Chilliwack forest district only.
68	**Chilliwack** forest district - species is preferred in Chilliwack forest district only.
69	Species is restricted to upper elevations when used in the southern portion of the biogeoclimatic unit.
70	Restricted to a maximum of 20% of preferred and acceptable well-spaced stems on northerly aspects.
71	Restricted to a maximum of 50% of preferred and acceptable well-spaced stems.
t	only applies to those portions of the site series that are on the toe, depression or level ground (as per blue book)

APPENDIX B

RECREATION FEATURES AND OBJECTIVES

Table D1: Recreation Sites &Trails with Objectives within FDUs under this FSP.

Proj No.	Project Name	Type	Estab. (yr/m/d)	Dist.	Map (NTS)	Size (ha)	Length (km.)	GPS (Plot)	Lands (File)	Parks (File)	Arch. Site	Objectives	FDU	TSA
2056	Bluewater Bridge	Site	97/01/02	DCO	82N11	68	-		240305	1-3-3-016		1998/01/30. The objective is to manage the Bluewater Bridge recreation site for a moving water recreation expenence. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and river boating will be available at the site.	Blackwater Ridge	Golden
2060	Susan Lake	Site	00/09/29	DCO	82N11	133.5	-		320811	1-3-3-045		1998/01/30. The objective is to manage the Susan Lake recreation site for a roaded recreation experience. The campsite will be maintained, the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	Blackwater Ridge	Golden
2068	Jeb Lake	Site	97/01/02	DCO	82N11	52.6	-		332406			1998/01/30. The objective is to manage the Jeb Lake recreation site for a roaded recreation experience. The campsite will be maintained, the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	Blackwater Ridge	Golden
2081	Blackwater Lakes	Site	00/04/20	DCO	82N11	789	-		240304	1-3-3-028		2001/03/22 The objective is to manage the Blackwater Lakes Recreation Site for a roaded recreation expenence. The campsites will be maintained; the creeks and lakes shorelines and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.	Blackwater Ridge	Golden
2082	Esplanade Bay	Site	00/04/20	DCO	82N12	14.7	-		295868			2001/03/22 The objective is to manage the Esplanade Bay Recreation Site for a lakeside roaded recreation expenence. The campsite will be maintained; the lakeshore vegetation will be conserved. Opportunities for camping, picnicking, and boat launching will be available.	Blackwater Ridge	Golden
2299	Bush Valenciennes	Site	97/01/02	DCO	82N14	241	-		325050			98/01/30. The objective is to manage the Bush Valenciennes recreation site for a roaded recreation expenence. The campsite will be maintained, the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	Goodfellow	Golden
2398	Swan Creek	Trail	97/01/02	DCO	82N13	-	5.4					98/01/30. The objective is to manage the Swan Creek recreation trail for a semi prmitive non motorized recreation expenence. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking are available, no mechanized uses permitted.	Swan	Golden
2462	Mount MacPherson	Site	93/02/18	DCO	82L16	355	25					97/01/21. The objectives are to manage the Mount MacPherson recreation site for a roaded resource recreation expenence. The all season multi-use trail system, Ole Sandbert Hut and Beaver Lake picnic site will be maintained and the shoreline vegetation at Beaver Lake will be retained. Opportunities for hiking, horseback riding, mountain bike riding, cross country skiing, viewing and nature study will be available at the site. Motorized use of the trails will not be allowed. Rough road access to the	Wetask and TFL 23	Revelstoke

										site will be maintained for two wheel drive vehicles from late April to late October. Off highway parking will be provided for winter users. Forest interpretation and educational opportunities will be provided through brochures, self guided interpretation trails and kiosks. Biodiversity and Forest Ecosystems are the primary interpretation themes.		
2474	Pingston Lake Trail	Trail	91/08/01	DCO	82L09	0.8	0.4			98/01/30. The objective is to manage the Pingston Lake recreation trail for a semi primitive non motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and equestrian uses are available, no mechanized uses permitted.	TFL 23	Revelstoke
2475	Mt. Begbie Trail	Trail	92/06/11	DCO	82L16	-	5.8			98/01/30. The objective is to manage the Mt. Begbie recreation trail for a semi primitive non motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking are available, no mechanized uses permitted.	TFL 23	Revelstoke
5015	Begbie Falls	Site	88/12/15	DCO	82L16	0.1	1	228290	1-3-3-060 1-2-2-100	96/12/20. The objectives are to manage the Begbie Falls recreation site for a roaded resource recreation experience. The waterfall, creek and rock climbing bluffs will be protected. Over/understory vegetation, shoreline of the Upper Arrow Reservoir and creek bank below the falls will be retained and the trails, picnic site and viewing platform will be maintained. Opportunities will be available for viewing, picnicking, camping, rock climbing and hiking. Rough road access to the site will be maintained for two wheel drive vehicles from April to late October.	Wetask	Revelstoke
5058	Bluewater Creek	Site	96/12/16	DCO	82N11	21	-			98/01/30. The objective is to manage the Blue Water Creek recreation site for a roaded recreation experience. The campsite will be maintained, the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and river boating will be available at the site.	Blackwater Ridge	Golden
5060	Wisted Creek	Map	96/12/16	DCO	82N11	33	-			98/01/30. The objective is to manage the Wisted Creek recreation site for a roaded recreation experience. The campsite will be maintained, the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and boating will be available at the site.	Esplanade	Golden
5067	Blackwater Creek	Site	96/12/16	DCO	82N11	4				98/01/30. The objective is to manage the Blackwater Creek recreation site for a roaded recreation experience. The campsite will be maintained, the creek shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site.	Blackwater Ridge	Golden

5068	Mt. Seven 7 North Ridge	Map	00/04/20	DCO	82N07 82N02	1084	-	2001/03/22 In the summer, during the snow free season, the Mt. 7, North Ridge Recreation Site will be managed for separated semi primitive non-motorized, semi primitive motorized, and roaded recreation experiences. In winter, when snow is on the ground the site will be managed for a separated semi primitive motorized and semi primitive non-motorized recreation experiences. The launch site area and day use facilities will be maintained, and the natural vegetation will be conserved. No overnight camping is permitted at the launch site. In the summer, opportunities for hang gliding, paragliding, mountain biking, scenic viewing, picnicking and hiking will be available. In the winter, opportunities for ski touring and snowmobiling will be available.	Mt Seven	Golden
5112	Gaint Cedars	Site	96/12/16	DCO	82N11	47	1.7	98/01/30. The objective is to manage the Giant Cedars recreation site for a day use, roaded recreation experience. Day use facilities will be maintained and natural vegetation will be conserved. Opportunities for picnicking will be available at the site. No overnight camping.	Blackwater Ridge	Golden
5118	Mt. Begbie	Map	00/04/20	DCO	82L16	4994	-	2001/03/22. In the summer, during the snow free season, the objective is to manage the Mt. Begbie Recreation Site for a semi primitive non motorized recreation experience; in the winter, when snow is on the ground, the objective is to manage the site for separated semi-primitive motorized and semi-primitive non motorized recreation experiences. The campsite and trail will be maintained, and the natural vegetation will be conserved. In summer, opportunities for dispersed camping, hiking and mountaineering will be available; in winter, opportunities for ski touring, mountaineering and snowmobiling will be available.	TFL 23	Revelstoke
5120	Frisby Ridge	Map		DCO	82M01	2914	-	96/12/20. The objectives are to manage Frisby Ridge recreation site for a semi primitive motorized recreation experience in the winter months when snow is on the ground and a semi primitive non-motorized experience in the summer when the area is snow free. The wildlife, primarily mountain caribou, will be protected and the sub alpine/alpine flora and fauna will be retained. Opportunities for snowmobiling, mountain biking, hiking and viewing will be available. Access to the site is via Ministry of Forests trail.	Frisby Ridge	Revelstoke
5638	Coursier Lake	Site	92/06/11	DCO	82L09	3	-	98/01/30. The objective is to manage the Coursier Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	TFL 23	Revelstoke
5943	Begbie Falls Trails	Trail		DCO	82L16	-	5.3	97/01/21. The objectives are to manage the Begbie Creek Trails for a roaded resource recreation experience. The multi-use trails and parking areas will be maintained. Opportunities for hiking, viewing, horse back riding and mountain bike riding will be available on these trails. Motorized use will not be allowed. Rough	Wetask	Revelstoke

										road access to the trails will be maintained for two wheel drive vehicles from April to late October.		
6062	Sprague Bay	Site	96/12/16	DCO	83D01	29.1	-			98/01/30 The objective is to manage the Sprague Bay recreation site for a roaded recreation experience. The campsite will be maintained, the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	Red Rock Harbour	Revelstoke
6054 or 6504	Begbie Lake	Site		DCO						96/12/20 The objectives are to manage the Begbie Lake recreation site for a roaded resource recreation experience. The recreation site will be maintained, the shoreline and adjacent vegetation will be retained and opportunities will be available for fishing, nature study and viewing. Access to the site is via paved public road maintained by the Ministry of Transportation and Highways.	TFL 23	Revelstoke
1878	Seymour River Falls	Site	81/10/22	DOS	82M/7d	42				97/09/15 The objectives are to manage the Seymour Falls recreation site for a roaded recreation experience. The river banks and coniferous vegetation will be retained. Opportunities for camping, picnicking, viewing, hiking and fishing will be provided at the site. Gravel road access will be maintained for two wheel drive vehicle from mid April to late November.	Long Ridge	Okanagan
1792	Nellie Lake	Site	81/10/22	DOS	82M/3h	34		3400158	1-2-2-153	97/09/15 The objectives are to manage the Nellie Lake recreation site for a roaded recreation experience. The lake shoreline and the coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, boating and viewing will be provided for at the site. Gravel road access will be maintained for two wheel drive vehicles on a year round basis.	Celista	Okanagan